Tobacco Institute Testing Laboratory

Market Sample 32
Test Report

"Tar", "Nicotine", and Carbon Monoxide Values

June 15, 1990

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

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Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
*Alpine KFMSP	17.0±0.3	1.14±0.02	16.0±0.3
*Alpine 100s 100FMSP	15.4±0.3	1.13±0.02	14.6±0.3
Alpine Lights KFMSP	9.3±0.2	0.74±0.02	10.6±0.2
Alpine Lights 100's 100FMSP	9.5±0.1	0.78±0.01	11.2±0.2
American Filter King KFSP	16.4±0.2	1.15±0.01	14.5±0.3
American Filter 100's 100FSP	16.4±0.2	1.21±0.02	14.5±0.3
American Lights KFSP	12.0±0.2	0.91±0.01	12.7±0.2
American Lights 100's 100FSP	12.3±0.3	0.97±0.02	13.2±0.4
Belair KFMSP	10.5±0.2	0.82±0.02	9.6±0.2
Belair 100's 100FMSP	8.1±0.2	0.62±0.01	8.7±0.2
Benson & Hedges KFHP	15.4±0.4	1.25±0.03	12.5±0.4
Benson & Hedges 100's 100FHP	16.4±0.2	1.22±0.02	15.3±0.2
Benson & Hedges 100's 100FMHP	16.5±0.3	1.21±0.02	15.6±0.3
Benson & Hedges 100's 100FSP	16.9±0.3	1.24±0.02	16.8±0.3
Benson & Hedges 100's 100FMSP	15.8±0.2	1.16±0.02	15.9±0.3
Benson & Hedges Deluxe Ultra Lights 100's 100FHP	5.2±0.2	0.48±0.01	6.6±0.2
Benson & Hedges Deluxe Ultra Lights 100's 100FMHP	5.1±0.2	0.47±0.01	6.8±0.2
Benson & Hedges Lights 100's 100FHP	10.8±0.2	0.85±0.02	11.6±0.4
Benson & Hedges Lights 100's 100FMHP	10.2±0.2	0.80±0.02	11.5±0.2
Benson & Hedges Lights 100's 100FSP	10.6±0.3	0.84±0.03	12.8±0.4
Benson & Hedges Lights 100's 100FMSP	10.6±0.2	0.86±0.02	11.7±0.3
*Benson & Hedges Multifilter KFSP	11.3±0.2	0.90±0.02	11.1±0.3
Cambridge Full Flavor KFSP	17.5±0.3	1.14±0.02	15.9±0.2
Cambridge Full Flavor 100's 100FSP	17.3±0.3	1.19±0.02	16.6±0.4
Cambridge Lights KFSP	12.4±0.2	0.89±0.02	12.7±0.2
Cambridge Lights KFMSP	12.0±0.3	0.87±0.02	13.0±0.4
Cambridge Lights 100's 100FSP	11.7±0.2	0.88±0.01	13.6±0.3
Cambridge Lights 100's 100FMSP	11.5±0.2	0.88±0.01	13.6±0.3
Cambridge Ultra Low Tar 100s 100FSP	4.0±0.2	0.38±0.01	6.0±0.2
Camel RNFSP	22.5±0.4	1.42±0.03	14.0±0.3
Camel Filters KFHP	16.9±0.3	1.04±0.02	16.1±0.3
Camel Filters KFSP	14.8±0.2	0.96±0.02	14.3±0.3
Camel Filters 100's 100FSP	17.3±0.2	1.04±0.02	18.9±0.3
Camel Lights KFHP	9.4±0.2	0.62±0.01	11.6±0.2
Camel Lights KFSP	9.4±0.1	0.66±0.01	11.9±0.2
Camel Lights 100's 100FSP	11.0±0.2	0.78±0.01	13.7±0.3
Capri 100FHP	9.6±0.2	0.80±0.02	6.5±0.2
Capri 100FMHP	9.5±0.2	0.75±0.02	6.3±0.2
Capri 120's 120FHP	14.0±0.2	1.12±0.02	9.8±0.3
Capri 120's 120FMHP	12.1±0.2	0.96±0.02	7.5±0.2
Carlton Ultra KFHP	< 0.5	< 0.05	< 0.5
Carlton KFSP	0.9±0.1	0.13±0.01	2.0±0.1
Carlton KFMSP	< 0.5	0.09±0.01	1.3±0.1
Carlton 83 KFHP	0.7±0.1	0.12±0.01	1.6±0.1
Carlton 100's 100FHP	< 0.5	0.09±0.00	0.9±0.1

*Retested brand

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PM3000761837

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Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Carlton 100's 100FMHP	< 0.5	0.09±0.00	0.9±0.1
Carlton 100's 100FSP	2.7±0.1	0.29±0.01	3.8±0.2
Carlton 100's 100FMSP	4.4±0.2	0.42±0.01	6.2±0.2
Carlton 120's 120FSP	6.1±0.2	0.61±0.02	5.5±0.2
Carlton 120's 120FMSP	5.9±0.2	0.59±0.02	5.1±0.1
Century 25's (25) KFSP	15.1±0.3	0.97±0.02	17.4±0.4
Century 25's 100's 100FSP	17.2±0.2	1.14±0.02	20.4±0.3
Century 25's Lights (25) KFSP	9.4±0.2	0.68±0.01	11.0±0.3
Century 25's Lights 100's 100FSP	11.5±0.2	0.89±0.02	13.0±0.3
Century 25's Lights 100's 100FMSP	11.1±0.3	0.82±0.02	12.5±0.4
Chesterfield RNFSP	19.7±0.4	1.26±0.03	12.6±0.3
Chesterfield KNFSP	23.5±0.5	1.58±0.04	14.8±0.4
Chesterfield Lights KFSP	10.0±0.2	0.79±0.01	11.6±0.2
Chesterfield Lights 100s 100FSP	10.3±0.2	0.86±0.01	11.3±0.3
Doral Full Flavor KFSP	16.2±0.3	1.02±0.03	16.5±0.4
Doral Full Flavor KFMSP	16.3±0.2	1.09±0.02	16.1±0.3
Doral Full Flavor 100's 100FSP	16.2±0.3	1.11±0.03	18.1±0.4
Doral Full Flavor 100's 100FMSP	15.8±0.2	1.13±0.02	17.3±0.2
Doral Lights KFSP	9.8±0.2	0.72±0.02	11.2±0.3
Doral Menthol Lights KFMSP	10.0±0.3	0.73±0.02	11.4±0.4
Doral Lights 100's 100FSP	10.3±0.3	0.83±0.02	10.5±0.4
Doral Menthol Lights 100's 100FMSP	10.9±0.2	0.88±0.02	11.2±0.3
Doral Ultra Lights 100's 100FSP	4.9±0.2	0.46±0.01	7.8±0.3
English Ovals KNFHP	23.5±0.4	1.83±0.04	15.3±0.4
Eve Slim Lights 100's 100FHP	12.7±0.2	1.03±0.02	10.9±0.2
Eve Slim Lights 100's 100FMHP	12.9±0.3	1.03±0.02	10.7±0.3
Eve Lights 120's 120FHP	12.8±0.3	1.11±0.02	11.4±0.3
Eve Lights 120's 120FMHP	13.0±0.2	1.14±0.03	11.5±0.3
Eve Ultra Lights 120's 120FHP	5.4±0.2	0.58±0.02	4.0±0.1
Eve Ultra Lights 120's 120FMHP	5.3±0.2	0.58±0.02	3.9±0.2
Falcon Lights KFSP	10.9±0.3	0.74±0.02	11.0±0.3
Falcon Lights KFMSP	10.4±0.3	0.79±0.02	12.0±0.4
Falcon Lights 100's 100FSP	11.2±0.3	0.79±0.02	14.2±0.4
Falcon Lights 100's 100FMSP	9.0±0.3	0.75±0.02	10.8±0.3
Harley Davidson KFSP	13.9±0.1	0.99±0.01	16.0±0.2
Herbert Tarcyton KNFSP	25.3±1.0	1.57±0.03	17.6±0.4
Kent Golden Lights KFHP	8.1±0.2	0.71±0.02	9.2±0.3
Kent Golden Lights KFSP	7.6±0.2	0.69±0.02	8.5±0.3
Kent Golden Lights KFMSP	8.1±0.3	0.73±0.02	8.9±0.4
Kent Golden Lights 100s 100FHP	8.9±0.3	0.83±0.03	9.7±0.4
Kent Golden Lights 100s 100FSP	8.7±0.3	0.80±0.02	9.2±0.5
Kent Golden Lights 100s 100FMSP	9.7±0.4	0.88±0.03	10.5±0.5
Kent KFHP	11.1±0.2	0.82±0.01	12.6±0.2
Kent KFSP	11.8±0.3	0.87±0.02	13.6±0.4
Kent 100s 100FSP	13.9±0.3	1.03±0.02	15.1±0.3
Kent 100s 100FMSP	14.1±0.3	1.04±0.02	14.9±0.3
Kent III KFSP	3.4±0.2	0.34±0.01	4.6±0.2

Rev. 6/90

PM3000761838

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Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Kent III 100s 100FHP	4.9±0.2	0.47±0.01	7.2±0.2
Kent III 100s 100FSP	4.7±0.1	0.44±0.01	7.1±0.2
Kool RNFMSP	21.5±0.8	1.39±0.02	14.6±0.3
Kool KFMHP	15.9±0.4	1.09±0.02	15.6±0.4
Kool KFMSP	17.0±0.3	1.19±0.03	16.0±0.4
Kool Super Longs 100's 100FMSP	17.2±0.3	1.27±0.03	16.9±0.3
Kool Lights KFMSP	8.1±0.2	0.67±0.02	9.0±0.2
Kool Lights 100's 100FMSP	8.7±0.3	0.74±0.02	10.0±0.4
Kool Milds KFMHP	11.5±0.2	0.87±0.01	11.4±0.2
Kool Milds KFMSP	12.2±0.2	0.94±0.03	12.6±0.2
Kool Milds 100's 100FMSP	12.1±0.3	0.95±0.02	13.0±0.3
Kool Ultra KFMSP	1.8±0.1	0.18±0.01	2.1±0.1
Kool Ultra 100's 100FMSP	4.8±0.2	0.43±0.02	5.0±0.2
L & M KFHP	13.6±0.2	1.07±0.02	12.9±0.2
L & M KFSP	13.6±0.3	1.05±0.02	13.0±0.3
L & M Super 100 100FSP	13.7±0.2	1.09±0.02	14.6±0.3
L & M Long Lights 100FSP	8.2±0.3	0.85±0.02	6.8±0.2
L & M 30's Lights 100's 100FSP	11.9±0.2	1.01±0.02	9.9±0.3
Lark KFSP	14.0±0.2	1.08±0.02	12.3±0.2
Lark 100FSP	14.4±0.2	1.17±0.02	13.6±0.2
Lark Lights KFSP	12.6±0.3	1.01±0.03	11.4±0.3
Lark Light 100's 100FSP	13.0±0.3	1.07±0.02	12.5±0.4
Lucky Strike RNFSP	25.1±0.4	1.56±0.03	17.2±0.4
Lucky Strike KFHP	12.0±0.2	0.92±0.02	12.8±0.2
Lucky Strike KFSP	12.3±0.3	0.92±0.02	12.8±0.4
Lucky Strike Filters 100's 100FSP	12.4±0.3	0.96±0.02	13.0±0.3
Lucky Strike Lights KFSP	8.4±0.2	0.68±0.01	10.1±0.3
Lucky Strike Lights 100's 100FSP	8.9±0.2	0.76±0.02	9.8±0.3
Magna KFHP	13.9±0.2	0.89±0.02	14.9±0.3
Magna KFSP	13.5±0.2	0.93±0.01	13.9±0.3
Magna Lites KFSP	9.4±0.2	0.65±0.02	13.4±0.3
Malibu Filters KFSP	16.6±0.3	1.20±0.02	14.9±0.3
Malibu Menthol KFMSP	16.1±0.3	1.18±0.02	14.0±0.3
Malibu 100's 100FSP	14.3±0.5	1.12±0.03	13.7±0.5
Malibu Menthol 100's 100FMSP	11.5±0.3	0.93±0.02	12.1±0.4
Malibu Lights KFSP	9.6±0.2	0.76±0.01	10.2±0.3
Malibu Lights 100's 100FSP	8.9±0.2	0.75±0.02	10.5±0.2
Marlboro KFHP	16.8±0.3	1.17±0.02	14.5±0.4
Marlboro KFSP	16.8±0.3	1.18±0.02	15.1±0.3
Marlboro KFMSP	16.5±0.3	1.16±0.02	15.0±0.3
Marlboro 100's 100FHP	16.6±0.2	1.23±0.02	16.2±0.3
Marlboro 100's 100FSP	16.4±0.3	1.21±0.02	15.7±0.4
Marlboro 25's KFSP	17.1±0.3	1.21±0.02	15.4±0.3
Marlboro Lights KFHP	11.2±0.2	0.85±0.01	12.4±0.3
Marlboro Lights KFMHP	9.8±0.2	0.76±0.02	11.1±0.3
Marlboro Lights KFSP	11.3±0.3	0.86±0.02	11.8±0.3
Marlboro Lights 100's 100FHP	10.8±0.2	0.86±0.02	12.0±0.2

Rev. 6/90

PM3000761839

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Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Marlboro Lights 100's 100FMHP	10.0±0.2	0.81±0.01	11.3±0.2
Marlboro Lights 100's 100FSP	10.7±0.2	0.86±0.02	12.0±0.3
Marlboro Lights 25's KFSP	11.0±0.2	0.82±0.02	11.9±0.2
Marlboro 100's Red 100FHP	16.8±0.3	1.27±0.02	17.3±0.3
Marlboro 100's Red 100FSP	16.4±0.2	1.22±0.01	15.9±0.2
Max 120s 120FSP	17.2±0.2	1.32±0.02	18.6±0.4
Max 120s 120FMSP	16.9±0.4	1.32±0.03	17.6±0.5
Merit KFHP	7.7±0.3	0.62±0.02	10.1±0.3
Merit KFSP	7.8±0.1	0.63±0.01	10.2±0.3
Merit KFMSP	7.9±0.2	0.64±0.01	9.8±0.2
Merit 100's 100FSP	9.8±0.2	0.80±0.02	12.1±0.3
Merit 100's 100FMSP	9.7±0.2	0.78±0.02	11.4±0.3
Merit Ultra Lights KFHP	5.1±0.1	0.49±0.01	6.4±0.2
Merit Ultra Lights KFSP	4.8±0.2	0.46±0.02	6.3±0.1
Merit Ultra Lights KFMSP	4.8±0.1	0.46±0.01	6.2±0.2
Merit Ultra Lights 100's 100FHP	5.8±0.1	0.58±0.02	7.1±0.2
Merit Ultra Lights 100's 100FSP	5.3±0.2	0.53±0.01	7.1±0.2
Merit Ultra Lights 100's 100FMSP	5.2±0.2	0.51±0.01	7.2±0.3
More 120s 120FSP	17.0±0.2	1.21±0.02	21.8±0.3
More 120s 120FMSP	17.2±0.3	1.32±0.02	21.9±0.5
More Lights 100s 100FHP	10.4±0.3	0.84±0.02	11.1±0.3
More Lights 100s 100FMHP	9.5±0.2	0.72±0.01	10.8±0.2
More Lights 120s 120FSP	12.1±0.2	0.91±0.02	18.8±0.4
More Lights 120s 120FMSP	12.6±0.3	0.99±0.02	19.5±0.5
More White Lights 120s 120FSP	9.8±0.1	0.74±0.01	13.5±0.3
More White Lights 120s 120FMSP	10.3±0.2	0.81±0.02	14.8±0.3
Newport KFMHP	15.9±0.3	1.15±0.02	16.9±0.3
Newport KFMSP	16.9±0.2	1.23±0.02	17.7±0.3
Newport 100's 100FMHP	18.7±0.3	1.42±0.03	19.4±0.3
Newport 100's 100FMSP	18.0±0.3	1.37±0.02	18.7±0.4
Newport 25's KFMSP	17.1±0.2	1.24±0.02	18.1±0.2
Newport 25's 100's 100FMSP	19.2±0.2	1.45±0.02	19.4±0.3
Newport Lights KFMHP	8.3±0.1	0.72±0.01	9.2±0.2
Newport Lights KFMSP	8.1±0.3	0.72±0.02	9.0±0.3
Newport Lights 100's 100FMHP	8.7±0.2	0.81±0.02	9.2±0.3
Newport Lights 100's 100FMSP	8.7±0.4	0.80±0.03	9.2±0.4
Newport Stripes 100FHP	11.7±0.2	0.91±0.02	15.5±0.4
Newport Stripes 100FMHP	12.1±0.2	0.90±0.02	16.4±0.4
Newport Stripes Slim Lights 100FMHP	9.6±0.2	0.76±0.01	11.3±0.3
Now KFHP	< 0.5	< 0.05	< 0.5
Now KFSP	0.7±0.1	0.13±0.01	2.0±0.1
Now KFMSP	0.8±0.1	0.12±0.01	2.2±0.1
Now 100s 100FHP	< 0.5	< 0.05	< 0.5
Now 100s 100FSP	1.6±0.1	0.20±0.01	2.8±0.1
Now 100s 100FMSP	2.4±0.1	0.25±0.01	4.0±0.2
Old Gold Straights KNFSP	26.0±0.7	1.77±0.03	17.9±0.6
Old Gold Filters KFSP	17.2±0.3	1.25±0.02	18.2±0.5

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PM3000761840

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Old Gold Filter 100's 100FSP	18.4±0.3	1.39±0.02	19.2±0.3
Old Gold Lights KFSP	8.7±0.3	0.77±0.02	9.9±0.4
Old Gold Lights 100s 100FSP	12.0±0.2	0.92±0.02	16.4±0.3
Pall Mall KNFSP	24.7±0.6	1.65±0.04	16.3±0.5
Pall Mall 25's KNFSP	25.0±0.3	1.66±0.03	16.3±0.3
Pall Mall 100's 100FSP	17.5±0.2	1.34±0.02	17.2±0.2
Pall Mall Lights 100's 100FSP	10.3±0.3	0.85±0.02	11.8±0.3
Pall Mall Red Filters KFSP	15.2±0.4	1.13±0.03	13.6±0.3
Pall Mall Red Filters 100's 100FSP	15.6±0.3	1.17±0.02	14.9±0.3
Pall Mall Red Lights KFSP	10.2±0.2	0.82±0.01	10.5±0.2
Pall Mall Red Lights 100's 100FSP	9.3±0.2	0.79±0.01	9.6±0.2
Parliament Lights KFHP	9.2±0.2	0.74±0.01	9.9±0.3
Parliament Lights KFSP	9.4±0.2	0.76±0.01	10.7±0.3
Parliament Lights 100's 100FSP	12.2±0.2	1.02±0.02	12.8±0.3
*Philip Morris RNFSP	23.5±0.5	1.43±0.03	13.6±0.5
Philip Morris Commander KNFSP	26.1±0.4	1.65±0.03	16.1±0.5
Philip Morris International 100FHP	16.7±0.2	1.25±0.02	16.1±0.3
Philip Morris International 100FMHP	16.8±0.2	1.28±0.02	15.6±0.2
Players RNFHP	24.7±0.4	1.74±0.03	15.4±0.4
Players KFHP	12.0±0.3	0.87±0.02	12.6±0.3
Players KFMHP	11.8±0.2	0.86±0.01	12.6±0.2
Players 100's 100FHP	14.2±0.2	1.04±0.02	12.9±0.2
Players 100's 100FMHP	13.9±0.2	1.03±0.02	12.5±0.2
Players Lights 25's KFSP	10.4±0.1	0.77±0.01	11.3±0.2
Players Lights 25's KFMSP	10.1±0.2	0.74±0.02	11.2±0.2
Players 25's Lights 100's 100FSP	11.8±0.2	0.88±0.02	13.7±0.3
Players 25's Lights 100's 100FMSP	11.5±0.2	0.87±0.01	13.5±0.3
Prince KFSP	16.5±0.2	1.31±0.02	18.0±0.2
Prince Lights KFSP	12.3±0.3	1.08±0.02	12.4±0.3
Pyramid KNFSP	22.7±0.4	1.52±0.02	14.7±0.4
Pyramid Lights KFSP	13.5±0.2	1.06±0.02	12.9±0.3
Pyramid Lights 100's 100FSP	13.5±0.2	1.14±0.02	14.5±0.2
Pyramid Ultra Lights 100's 100FSP	5.6±0.1	0.57±0.01	5.1±0.1
Raleigh KNFSP	25.1±0.4	1.46±0.03	16.9±0.4
Raleigh KFSP	15.3±0.4	0.96±0.03	14.4±0.3
Raleigh 100's 100FSP	15.5±0.4	0.97±0.02	15.7±0.3
Raleigh Lights KFSP	11.4±0.3	0.89±0.02	12.5±0.3
Raleigh Lights 100's 100FSP	12.3±0.2	0.92±0.01	14.6±0.3
Richland 20's KFSP	17.2±0.4	1.18±0.02	16.2±0.3
Richland 20's KFMSP	16.1±0.3	1.05±0.02	15.5±0.4
Richland 20's 100's 100FSP	17.8±0.3	1.30±0.02	17.0±0.3
Richland 20's Menthol 100's 100FMSP	16.3±0.3	1.14±0.02	16.4±0.3
Richland 20's Lights KFSP	11.9±0.2	0.91±0.01	12.5±0.3
Richland 20's Lights 100's 100FSP	12.3±0.3	0.91±0.02	14.0±0.3
Richland (25) KFSP	16.8±0.3	1.16±0.02	16.1±0.4

*Retested brand

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PM3000761841

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Test Results

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Richland (25) KFMSP	16.5±0.4	1.08±0.02	15.8±0.4
Richland 100's (25) 100FSP	18.2±0.2	1.35±0.02	17.5±0.3
Richland Lights (25) KFSP	11.6±0.3	0.90±0.02	12.6±0.3
Richland Lights (25) 100's 100FSP	12.6±0.2	0.95±0.02	14.4±0.3
Ritz 100 100FHP	9.8±0.3	0.77±0.02	10.7±0.3
Ritz 100 100FMHP	10.8±0.2	0.78±0.01	11.0±0.3
Salem KFMSP	16.8±0.2	1.16±0.02	16.7±0.2
Salem 100's 100FMSP	16.4±0.3	1.15±0.02	16.0±0.4
Salem Lights KFMSP	9.4±0.2	0.70±0.01	12.0±0.3
Salem Lights 100's 100FMHP	10.8±0.2	0.83±0.01	11.3±0.3
Salem Lights 100's 100FMSP	8.2±0.2	0.68±0.02	10.0±0.2
Salem Slim Lights 100's 100FMHP	9.5±0.2	0.75±0.01	10.0±0.2
Salem Ultra Lights KFMSP	4.9±0.1	0.44±0.01	7.6±0.2
Salem Ultra Lights 100's 100FMSP	4.5±0.2	0.41±0.01	7.0±0.3
Saratoga 120's 120FHP	15.1±0.3	1.17±0.02	15.0±0.4
Saratoga 120's 120FMHP	14.8±0.2	1.13±0.02	14.3±0.3
Satin 100FSP	11.1±0.3	0.94±0.01	13.3±0.4
Satin 100FMSP	11.3±0.2	0.94±0.02	13.6±0.3
Savvy 100's Lights 100FSP	10.1±0.2	0.87±0.02	10.7±0.2
Savvy 100's Lights 100FMSP	10.3±0.2	0.88±0.02	10.9±0.2
Savvy Ultra Lights 100's 100FSP	5.2±0.2	0.54±0.01	5.2±0.1
Silva Thins Filters 100FHP	12.4±0.2	1.01±0.02	11.8±0.2
Silva Thins Menthol 100FMHP	12.3±0.2	0.99±0.02	11.9±0.3
Spring 100's 100FMSP	18.2±0.3	1.40±0.03	18.4±0.4
Tall 120s 120FSP	18.9±0.3	1.56±0.03	19.2±0.3
Tall 120s 120FMSP	18.4±0.3	1.57±0.03	17.5±0.3
Tareyton KFSP	14.2±0.3	0.99±0.02	15.6±0.3
Tareyton 100's 100FSP	13.9±0.2	1.02±0.02	16.7±0.3
Tareyton Lights KFSP	5.1±0.3	0.44±0.02	5.7±0.4
Tareyton Long Lights 100FSP	7.9±0.3	0.68±0.02	8.8±0.4
Triumph KFSP	2.8±0.2	0.30±0.01	3.6±0.2
Triumph KFMSP	3.4±0.2	0.35±0.02	4.4±0.3
Triumph 100s 100FSP	5.4±0.2	0.50±0.01	7.6±0.3
Triumph 100s 100FMSP	5.5±0.2	0.52±0.02	7.8±0.2
True KFSP	4.7±0.3	0.46±0.02	6.1±0.3
True KFMSP	4.6±0.2	0.46±0.01	6.1±0.2
True 100's 100FSP	6.2±0.3	0.60±0.02	7.0±0.3
True 100's 100FMSP	6.5±0.3	0.61±0.02	7.2±0.4
Vantage KFSP	10.3±0.1	0.73±0.01	13.4±0.2
Vantage KFMSP	9.8±0.2	0.68±0.01	12.2±0.2
Vantage 100s 100FSP	8.5±0.1	0.64±0.01	11.4±0.2
Vantage Menthol 100s 100FMSP	8.2±0.2	0.60±0.01	12.6±0.3
Vantage Excell 100's 100FSP	8.8±0.2	0.72±0.02	9.2±0.3
Vantage Ultra Lights KFSP	5.0±0.1	0.43±0.01	7.4±0.2
Vantage Ultra Lights 100s 100FSP	4.9±0.1	0.44±0.01	8.0±0.2
Viceroy KFSP	16.8±0.3	1.11±0.03	15.7±0.4
Viceroy Super Long 100's 100FSP	16.1±0.3	1.17±0.02	15.3±0.3

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PM3000761842

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Test Results

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Viceroy Lights KFSP	11.3±0.2	0.87±0.02	12.7±0.3
Viceroy Lights 100's 100FSP	12.0±0.3	0.92±0.02	13.8±0.3
Virginia Slims 100FSP	15.0±0.3	1.12±0.02	13.2±0.2
Virginia Slims 100FMSP	15.3±0.2	1.15±0.02	13.3±0.3
Virginia Slims Lights 100FHP	8.7±0.2	0.72±0.02	9.6±0.3
Virginia Slims Lights 100FMHP	8.6±0.2	0.71±0.01	9.6±0.2
Virginia Slims Lights 120's 120FHP	14.3±0.3	1.13±0.02	13.9±0.4
Virginia Slims Lights 120's 120FMHP	13.7±0.3	1.09±0.02	13.3±0.3
Virginia Slims Ultra Lights 100 100FHP	4.9±0.1	0.47±0.01	5.4±0.2
Virginia Slims Ultra Lights 100 100FMHP	4.8±0.2	0.45±0.02	5.2±0.2
Winston KFHP	16.8±0.3	1.05±0.02	15.8±0.3
Winston KFSP	16.6±0.3	1.11±0.02	16.2±0.3
Winston 100's 100FSP	17.1±0.2	1.05±0.01	19.1±0.3
Winston Lights KFHP	9.6±0.2	0.62±0.01	11.5±0.2
Winston Lights KFSP	9.5±0.2	0.66±0.02	11.4±0.2
Winston Lights 100's 100FHP	9.9±0.2	0.72±0.02	12.3±0.4
Winston Lights 100's 100FSP	11.1±0.2	0.79±0.01	12.7±0.2
Winston Ultra Lights KFSP	5.4±0.1	0.47±0.01	8.5±0.2
Winston Ultra Lights 100's 100FSP	4.8±0.1	0.43±0.01	8.3±0.2
Craven "A" KFHP	15.6±0.2	1.19±0.02	16.3±0.3
Craven "A" Filter Standard Size RFHP	18.7±0.4	1.54±0.03	14.1±0.3
Dunhill International 100FHP	16.9±0.2	1.56±0.03	17.3±0.3
Dunhill Menthol 100FMHP	14.8±0.2	1.26±0.02	17.1±0.2
Dunhill Menthol Mild 100FMHP	10.8±0.4	0.97±0.03	13.0±0.4
Dunhill International Superior Mild 100FHP	8.5±0.3	0.79±0.02	9.8±0.3
Rothmans KFHP	18.0±0.3	1.36±0.02	18.9±0.3
Rothmans Special Mild KFHP	14.1±0.3	1.11±0.02	15.9±0.2
St. Moritz Filter 100FSP	14.9±0.2	1.09±0.02	15.5±0.2
St. Moritz Menthol 100FMSP	14.2±0.3	0.93±0.02	16.0±0.4

PM3000761843

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Test Results - Rounded Values

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
*Alpine KFMSP	17	1.1	16
*Alpine 100s 100FMSP	15	1.1	15
Alpine Lights KFMSP	9	0.7	11
Alpine Lights 100's 100FMSP	9	0.8	11
American Filter King KFSP	16	1.2	14
American Filter 100's 100FSP	16	1.2	15
American Lights KFSP	12	0.9	13
American Lights 100's 100FSP	12	1.0	13
Belair KFMSP	10	0.8	10
Belair 100's 100FMSP	8	0.6	9
Benson & Hedges KFHP	15	1.2	13
Benson & Hedges 100's 100FHP	16	1.2	15
Benson & Hedges 100's 100FMHP	16	1.2	16
Benson & Hedges 100's 100FSP	17	1.2	17
Benson & Hedges 100's 100FMSP	16	1.2	16
Benson & Hedges Deluxe Ultra Lights 100's 100FHP	5	0.5	7
Benson & Hedges Deluxe Ultra Lights 100's 100FMHP	5	0.5	7
Benson & Hedges Lights 100's 100FHP	11	0.9	12
Benson & Hedges Lights 100's 100FMHP	10	0.8	11
Benson & Hedges Lights 100's 100FSP	11	0.8	13
Benson & Hedges Lights 100's 100FMSP	11	0.9	12
*Benson & Hedges Multifilter KFSP	11	0.9	11
Cambridge Full Flavor KFSP	17	1.1	16
Cambridge Full Flavor 100's 100FSP	17	1.2	17
Cambridge Lights KFSP	12	0.9	13
Cambridge Lights KFMSP	12	0.9	13
Cambridge Lights 100's 100FSP	12	0.9	14
Cambridge Lights 100's 100FMSP	12	0.9	14
Cambridge Ultra Low Tar 100s 100FSP	4	0.4	6
Camel RNFSP	22	1.4	14
Camel Filters KFHP	17	1.0	16
Camel Filters KFSP	15	1.0	14
Camel Filters 100's 100FSP	17	1.0	19
Camel Lights KFHP	9	0.6	12
Camel Lights KFSP	9	0.7	12
Camel Lights 100's 100FSP	11	0.8	14
Capri 100FHP	10	0.8	7
Capri 100FMHP	9	0.8	6
Capri 120's 120FHP	14	1.1	10
Capri 120's 120FMHP	12	1.0	8
Carlton Ultra KFHP	< 0.5	< 0.05	< 0.5
Carlton KFSP	1	0.1	2
Carlton KFMSP	< 0.5	0.1	1
Carlton 83 KFHP	1	0.1	2
Carlton 100's 100FHP	< 0.5	0.1	1

*Retested brand

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PM3000761844

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Test Results - Rounded Values

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Carlton 100's 100FMHP	< 0.5	0.1	1
Carlton 100's 100FSP	3	0.3	4
Carlton 100's 100FMSP	4	0.4	6
Carlton 120's 120FSP	6	0.6	6
Carlton 120's 120FMSP	6	0.6	5
Century 25's (25) KFSP	15	1.0	17
Century 25's 100's 100FSP	17	1.1	20
Century 25's Lights (25) KFSP	9	0.7	11
Century 25's Lights 100's 100FSP	12	0.9	13
Century 25's Lights 100's 100FMSP	11	0.8	13
Chesterfield RNFSP	20	1.3	13
Chesterfield KNFSP	24	1.6	15
Chesterfield Lights KFSP	10	0.8	12
Chesterfield Lights 100s 100FSP	10	0.9	11
Doral Full Flavor KFSP	16	1.0	17
Doral Full Flavor KFMSP	16	1.1	16
Doral Full Flavor 100's 100FSP	16	1.1	18
Doral Full Flavor 100's 100FMSP	16	1.1	17
Doral Lights KFSP	10	0.7	11
Doral Menthol Lights KFMSP	10	0.7	11
Doral Lights 100's 100FSP	10	0.8	10
Doral Menthol Lights 100's 100FMSP	11	0.9	11
Doral Ultra Lights 100's 100FSP	5	0.5	8
English Ovals KNFHP	23	1.8	15
Eve Slim Lights 100's 100FHP	13	1.0	11
Eve Slim Lights 100's 100FMHP	13	1.0	11
Eve Lights 120's 120FHP	13	1.1	11
Eve Lights 120's 120FMHP	13	1.1	11
Eve Ultra Lights 120's 120FHP	5	0.6	4
Eve Ultra Lights 120's 120FMHP	5	0.6	4
Falcon Lights KFSP	11	0.7	11
Falcon Lights KFMSP	10	0.8	12
Falcon Lights 100's 100FSP	11	0.8	14
Falcon Lights 100's 100FMSP	9	0.7	11
Harley Davidson KFSP	14	1.0	16
Herbert Tarcyton KNFSP	25	1.6	18
Kent Golden Lights KFHP	8	0.7	9
Kent Golden Lights KFSP	8	0.7	8
Kent Golden Lights KFMSP	8	0.7	9
Kent Golden Lights 100s 100FHP	9	0.8	10
Kent Golden Lights 100s 100FSP	9	0.8	9
Kent Golden Lights 100s 100FMSP	10	0.9	10
Kent KFHP	11	0.8	13
Kent KFSP	12	0.9	14
Kent 100s 100FSP	14	1.0	15
Kent 100s 100FMSP	14	1.0	15
Kent III KFSP	3	0.3	5

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Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Test Results - Rounded Values

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Kent III 100s 100FHP	5	0.5	7
Kent III 100s 100FSP	5	0.4	7
Kool RNFMSP	22	1.4	15
Kool KFMHP	16	1.1	16
Kool KFMSP	17	1.2	16
Kool Super Longs 100's 100FMSP	17	1.3	17
Kool Lights KFMSP	8	0.7	9
Kool Lights 100's 100FMSP	9	0.7	10
Kool Milds KFMHP	11	0.9	11
Kool Milds KFMSP	12	0.9	13
Kool Milds 100's 100FMSP	12	0.9	13
Kool Ultra KFMSP	2	0.2	2
Kool Ultra 100's 100FMSP	5	0.4	5
L & M KFHP	14	1.1	13
L & M KFSP	14	1.0	13
L & M Super 100 100FSP	14	1.1	15
L & M Long Lights 100FSP	8	0.9	7
L & M 30's Lights 100's 100FSP	12	1.0	10
Lark KFSP	14	1.1	12
Lark 100FSP	14	1.2	14
Lark Lights KFSP	13	1.0	11
Lark Light 100's 100FSP	13	1.1	13
Lucky Strike RNFSP	25	1.6	17
Lucky Strike KFHP	12	0.9	13
Lucky Strike KFSP	12	0.9	13
Lucky Strike Filters 100's 100FSP	12	1.0	13
Lucky Strike Lights KFSP	8	0.7	10
Lucky Strike Lights 100's 100FSP	9	0.8	10
Magna KFHP	14	0.9	15
Magna KFSP	14	0.9	14
Magna Lites KFSP	9	0.7	13
Malibu Filters KFSP	17	1.2	15
Malibu Menthol KFMSP	16	1.2	14
Malibu 100's 100FSP	14	1.1	14
Malibu Menthol 100's 100FMSP	11	0.9	12
Malibu Lights KFSP	10	0.8	10
Malibu Lights 100's 100FSP	9	0.8	11
Marlboro KFHP	17	1.2	15
Marlboro KFSP	17	1.2	15
Marlboro KFMSP	16	1.2	15
Marlboro 100's 100FHP	17	1.2	16
Marlboro 100's 100FSP	16	1.2	16
Marlboro 25's KFSP	17	1.2	15
Marlboro Lights KFHP	11	0.9	12
Marlboro Lights KFMHP	10	0.8	11
Marlboro Lights KFSP	11	0.9	12
Marlboro Lights 100's 100FHP	11	0.9	12

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Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Test Results - Rounded Values

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Marlboro Lights 100's 100FMHP	10	0.8	11
Marlboro Lights 100's 100FSP	11	0.9	12
Marlboro Lights 25's KFSP	11	0.8	12
Marlboro 100's Red 100FHP	17	1.3	17
Marlboro 100's Red 100FSP	16	1.2	16
Max 120s 120FSP	17	1.3	19
Max 120s 120FMSP	17	1.3	18
Merit KFHP	8	0.6	10
Merit KFSP	8	0.6	10
Merit KFMSP	8	0.6	10
Merit 100's 100FSP	10	0.8	12
Merit 100's 100FMSP	10	0.8	11
Merit Ultra Lights KFHP	5	0.5	6
Merit Ultra Lights KFSP	5	0.5	6
Merit Ultra Lights KFMSP	5	0.5	6
Merit Ultra Lights 100's 100FHP	6	0.6	7
Merit Ultra Lights 100's 100FSP	5	0.5	7
Merit Ultra Lights 100's 100FMSP	5	0.5	7
More 120s 120FSP	17	1.2	22
More 120s 120FMSP	17	1.3	22
More Lights 100s 100FHP	10	0.8	11
More Lights 100s 100FMHP	9	0.7	11
More Lights 120s 120FSP	12	0.9	19
More Lights 120s 120FMSP	13	1.0	20
More White Lights 120s 120FSP	10	0.7	13
More White Lights 120s 120FMSP	10	0.8	15
Newport KFMHP	16	1.2	17
Newport KFMSP	17	1.2	18
Newport 100's 100FMHP	19	1.4	19
Newport 100's 100FMSP	18	1.4	19
Newport 25's KFMSP	17	1.2	18
Newport 25's 100's 100FMSP	19	1.4	19
Newport Lights KFMHP	8	0.7	9
Newport Lights KFMSP	8	0.7	9
Newport Lights 100's 100FMHP	9	0.8	9
Newport Lights 100's 100FMSP	9	0.8	9
Newport Stripes 100FHP	12	0.9	16
Newport Stripes 100FMHP	12	0.9	16
Newport Stripes Slim Lights 100FMHP	10	0.8	11
Now KFHP	< 0.5	< 0.05	< 0.5
Now KFSP	1	0.1	2
Now KFMSP	1	0.1	2
Now 100s 100FHP	< 0.5	< 0.05	< 0.5
Now 100s 100FSP	2	0.2	3
Now 100s 100FMSP	2	0.2	4
Old Gold Straights KNFSP	26	1.8	18
Old Gold Filters KFSP	17	1.2	18

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Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Test Results - Rounded Values

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Old Gold Filter 100's 100FSP	18	1.4	19
Old Gold Lights KFSP	9	0.8	10
Old Gold Lights 100s 100FSP	12	0.9	16
Pall Mall KNFSP	25	1.7	16
Pall Mall 25's KNFSP	25	1.7	16
Pall Mall 100's 100FSP	18	1.3	17
Pall Mall Lights 100's 100FSP	10	0.9	12
Pall Mall Red Filters KFSP	15	1.1	14
Pall Mall Red Filters 100's 100FSP	16	1.2	15
Pall Mall Red Lights KFSP	10	0.8	10
Pall Mall Red Lights 100's 100FSP	9	0.8	10
Parliament Lights KFHP	9	0.7	10
Parliament Lights KFSP	9	0.8	11
Parliament Lights 100's 100FSP	12	1.0	13
*Philip Morris RNFSP	24	1.4	13
Philip Morris Commander KNFSP	26	1.7	16
Philip Morris International 100FHP	17	1.2	16
Philip Morris International 100FMHP	17	1.3	16
Players RNFHP	25	1.7	15
Players KFHP	12	0.9	13
Players KFMHP	12	0.9	13
Players 100's 100FHP	14	1.0	13
Players 100's 100FMHP	14	1.0	12
Players Lights 25's KFSP	10	0.8	11
Players Lights 25's KFMSP	10	0.7	11
Players 25's Lights 100's 100FSP	12	0.9	14
Players 25's Lights 100's 100FMSP	11	0.9	13
Prince KFSP	16	1.3	18
Prince Lights KFSP	12	1.1	12
Pyramid KNFSP	23	1.5	15
Pyramid Lights KFSP	14	1.1	13
Pyramid Lights 100's 100FSP	13	1.1	14
Pyramid Ultra Lights 100's 100FSP	6	0.6	5
Raleigh KNFSP	25	1.5	17
Raleigh KFSP	15	1.0	14
Raleigh 100's 100FSP	16	1.0	16
Raleigh Lights KFSP	11	0.9	13
Raleigh Lights 100's 100FSP	12	0.9	15
Richland 20's KFSP	17	1.2	16
Richland 20's KFMSP	16	1.0	16
Richland 20's 100's 100FSP	18	1.3	17
Richland 20's Menthol 100's 100FMSP	16	1.1	16
Richland 20's Lights KFSP	12	0.9	13
Richland 20's Lights 100's 100FSP	12	0.9	14
Richland (25) KFSP	17	1.2	16

*Retested brand

Rev. 6/90

PM3000761848

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Test Results - Rounded Values

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Richland (25) KFMSP	16	1.1	16
Richland 100's (25) 100FSP	18	1.4	18
Richland Lights (25) KFSP	12	0.9	13
Richland Lights (25) 100's 100FSP	13	1.0	14
Ritz 100 100FHP	10	0.8	11
Ritz 100 100FMHP	11	0.8	11
Salem KFMSP	17	1.2	17
Salem 100's 100FMSP	16	1.2	16
Salem Lights KFMSP	9	0.7	12
Salem Lights 100's 100FMHP	11	0.8	11
Salem Lights 100's 100FMSP	8	0.7	10
Salem Slim Lights 100's 100FMHP	10	0.7	10
Salem Ultra Lights KFMSP	5	0.4	8
Salem Ultra Lights 100's 100FMSP	4	0.4	7
Saratoga 120's 120FHP	15	1.2	15
Saratoga 120's 120FMHP	15	1.1	14
Satin 100FSP	11	0.9	13
Satin 100FMSP	11	0.9	14
Savvy 100's Lights 100FSP	10	0.9	11
Savvy 100's Lights 100FMSP	10	0.9	11
Savvy Ultra Lights 100's 100FSP	5	0.5	5
Silva Thins Filters 100FHP	12	1.0	12
Silva Thins Menthol 100FMHP	12	1.0	12
Spring 100's 100FMSP	18	1.4	18
Tall 120s 120FSP	19	1.6	19
Tall 120s 120FMSP	18	1.6	17
Tareyton KFSP	14	1.0	16
Tareyton 100's 100FSP	14	1.0	17
Tareyton Lights KFSP	5	0.4	6
Tareyton Long Lights 100FSP	8	0.7	9
Triumph KFSP	3	0.3	4
Triumph KFMSP	3	0.4	4
Triumph 100s 100FSP	5	0.5	8
Triumph 100s 100FMSP	6	0.5	8
True KFSP	5	0.5	6
True KFMSP	5	0.5	6
True 100's 100FSP	6	0.6	7
True 100's 100FMSP	6	0.6	7
Vantage KFSP	10	0.7	13
Vantage KFMSP	10	0.7	12
Vantage 100s 100FSP	9	0.6	11
Vantage Menthol 100s 100FMSP	8	0.6	13
Vantage Excell 100's 100FSP	9	0.7	9
Vantage Ultra Lights KFSP	5	0.4	7
Vantage Ultra Lights 100s 100FSP	5	0.4	8
Viceroy KFSP	17	1.1	16
Viceroy Super Long 100's 100FSP	16	1.2	15

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PM3000761849

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Test Results - Rounded Values

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Viceroy Lights KFSP	11	0.9	13
Viceroy Lights 100's 100FSP	12	0.9	14
Virginia Slims 100FSP	15	1.1	13
Virginia Slims 100FMSP	15	1.2	13
Virginia Slims Lights 100FHP	9	0.7	10
Virginia Slims Lights 100FMHP	9	0.7	10
Virginia Slims Lights 120's 120FHP	14	1.1	14
Virginia Slims Lights 120's 120FMHP	14	1.1	13
Virginia Slims Ultra Lights 100 100FHP	5	0.5	5
Virginia Slims Ultra Lights 100 100FMHP	5	0.4	5
Winston KFHP	17	1.1	16
Winston KFSP	17	1.1	16
Winston 100's 100FSP	17	1.1	19
Winston Lights KFHP	10	0.6	12
Winston Lights KFSP	10	0.7	11
Winston Lights 100's 100FHP	10	0.7	12
Winston Lights 100's 100FSP	11	0.8	13
Winston Ultra Lights KFSP	5	0.5	8
Winston Ultra Lights 100's 100FSP	5	0.4	8
Craven "A" KFHP	16	1.2	16
Craven "A" Filter Standard Size RFHP	19	1.5	14
Dunhill International 100FHP	17	1.6	17
Dunhill Menthol 100FMHP	15	1.3	17
Dunhill Menthol Mild 100FMHP	11	1.0	13
Dunhill International Superior Mild 100FHP	9	0.8	10
Rothmans KFHP	18	1.4	19
Rothmans Special Mild KFHP	14	1.1	16
St. Moritz Filter 100FSP	15	1.1	16
St. Moritz Menthol 100FMSP	14	0.9	16

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Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Appendix A

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Test Results - American Tobacco Company Brands

Brand	Tar mg/cig	Nicotine mg/cig	CO mg/cig
American Filter King KFSP	16.4±0.2	1.15±0.01	14.5±0.3
American Filter 100's 100FSP	16.4±0.2	1.21±0.02	14.5±0.3
American Lights KFSP	12.0±0.2	0.91±0.01	12.7±0.2
American Lights 100's 100FSP	12.3±0.3	0.97±0.02	13.2±0.4
Carlton Ultra KFHP	< 0.5	< 0.05	< 0.5
Carlton KFSP	0.9±0.1	0.13±0.01	2.0±0.1
Carlton KFMSP	< 0.5	0.09±0.01	1.3±0.1
Carlton 83 KFHP	0.7±0.1	0.12±0.01	1.6±0.1
Carlton 100's 100FHP	< 0.5	0.09±0.00	0.9±0.1
Carlton 100's 100FMHP	< 0.5	0.09±0.00	0.9±0.1
Carlton 100's 100FSP	2.7±0.1	0.29±0.01	3.8±0.2
Carlton 100's 100FMSP	4.4±0.2	0.42±0.01	6.2±0.2
Carlton 120's 120FSP	6.1±0.2	0.61±0.02	5.5±0.2
Carlton 120's 120FMSP	5.9±0.2	0.59±0.02	5.1±0.1
Herbert Tareyton KNFSP	25.3±1.0	1.57±0.03	17.6±0.4
Lucky Strike RNFSP	25.1±0.4	1.56±0.03	17.2±0.4
Lucky Strike KFHP	12.0±0.2	0.92±0.02	12.8±0.2
Lucky Strike KFSP	12.3±0.3	0.92±0.02	12.8±0.4
Lucky Strike Filters 100's 100FSP	12.4±0.3	0.96±0.02	13.0±0.3
Lucky Strike Lights KFSP	8.4±0.2	0.68±0.01	10.1±0.3
Lucky Strike Lights 100's 100FSP	8.9±0.2	0.76±0.02	9.8±0.3
Malibu Filters KFSP	16.6±0.3	1.20±0.02	14.9±0.3
Malibu Menthol KFMSP	16.1±0.3	1.18±0.02	14.0±0.3
Malibu 100's 100FSP	14.3±0.5	1.12±0.03	13.7±0.5
Malibu Menthol 100's 100FMSP	11.5±0.3	0.93±0.02	12.1±0.4
Malibu Lights KFSP	9.6±0.2	0.76±0.01	10.2±0.3
Malibu Lights 100's 100FSP	8.9±0.2	0.75±0.02	10.5±0.2
Pall Mall KNFSP	24.7±0.6	1.65±0.04	16.3±0.5
Pall Mall 25's KNFSP	25.0±0.3	1.66±0.03	16.3±0.3
Pall Mall 100's 100FSP	17.5±0.2	1.34±0.02	17.2±0.2
Pall Mall Lights 100's 100FSP	10.3±0.3	0.85±0.02	11.8±0.3
Pall Mall Red Filters KFSP	15.2±0.4	1.13±0.03	13.6±0.3
Pall Mall Red Filters 100's 100FSP	15.6±0.3	1.17±0.02	14.9±0.3
Pall Mall Red Lights KFSP	10.2±0.2	0.82±0.01	10.5±0.2
Pall Mall Red Lights 100's 100FSP	9.3±0.2	0.79±0.01	9.6±0.2
Silva Thins Filters 100FHP	12.4±0.2	1.01±0.02	11.8±0.2
Silva Thins Menthol 100FMHP	12.3±0.2	0.99±0.02	11.9±0.3
Tall 120s 120FSP	18.9±0.3	1.56±0.03	19.2±0.3
Tall 120s 120FMSP	18.4±0.3	1.57±0.03	17.5±0.3
Tarcyton KFSP	14.2±0.3	0.99±0.02	15.6±0.3
Tareyton 100's 100FSP	13.9±0.2	1.02±0.02	16.7±0.3
Tarcyton Lights KFSP	5.1±0.3	0.44±0.02	5.7±0.4
Tarcyton Long Lights 100FSP	7.9±0.3	0.68±0.02	8.8±0.4

Rev. 6/90

PM3000761852

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Test Results - Brown & Williamson Brands

Brand	Tar mg/cig	Nicotine mg/cig	CO mg/cig
Belair KFMSP	10.5±0.2	0.82±0.02	9.6±0.2
Belair 100's 100FMSP	8.1±0.2	0.62±0.01	8.7±0.2
Capri 100FHP	9.6±0.2	0.80±0.02	6.5±0.2
Capri 100FMHP	9.5±0.2	0.75±0.02	6.3±0.2
Capri 120's 120FHP	14.0±0.2	1.12±0.02	9.8±0.3
Capri 120's 120FMHP	12.1±0.2	0.96±0.02	7.5±0.2
Falcon Lights KFSP	10.9±0.3	0.74±0.02	11.0±0.3
Falcon Lights KFMSP	10.4±0.3	0.79±0.02	12.0±0.4
Falcon Lights 100's 100FSP	11.2±0.3	0.79±0.02	14.2±0.4
Falcon Lights 100's 100FMSP	9.0±0.3	0.75±0.02	10.8±0.3
Kool RNFMSP	21.5±0.8	1.39±0.02	14.6±0.3
Kool KFMHP	15.9±0.4	1.09±0.02	15.6±0.4
Kool KFMSP	17.0±0.3	1.19±0.03	16.0±0.4
Kool Super Longs 100's 100FMSP	17.2±0.3	1.27±0.03	16.9±0.3
Kool Lights KFMSP	8.1±0.2	0.67±0.02	9.0±0.2
Kool Lights 100's 100FMSP	8.7±0.3	0.74±0.02	10.0±0.4
Kool Milds KFMHP	11.5±0.2	0.87±0.01	11.4±0.2
Kool Milds KFMSP	12.2±0.2	0.94±0.03	12.6±0.2
Kool Milds 100's 100FMSP	12.1±0.3	0.95±0.02	13.0±0.3
Kool Ultra KFMSP	1.8±0.1	0.18±0.01	2.1±0.1
Kool Ultra 100's 100FMSP	4.8±0.2	0.43±0.02	5.0±0.2
Prince KFSP	16.5±0.2	1.31±0.02	18.0±0.2
Prince Lights KFSP	12.3±0.3	1.08±0.02	12.4±0.3
Raleigh KNFSP	25.1±0.4	1.46±0.03	16.9±0.4
Raleigh KFSP	15.3±0.4	0.96±0.03	14.4±0.3
Raleigh 100's 100FSP	15.5±0.4	0.97±0.02	15.7±0.3
Raleigh Lights KFSP	11.4±0.3	0.89±0.02	12.5±0.3
Raleigh Lights 100's 100FSP	12.3±0.2	0.92±0.01	14.6±0.3
Richland 20's KFSP	17.2±0.4	1.18±0.02	16.2±0.3
Richland 20's KFMSP	16.1±0.3	1.05±0.02	15.5±0.4
Richland 20's 100's 100FSP	17.8±0.3	1.30±0.02	17.0±0.3
Richland 20's Menthol 100's 100FMSP	16.3±0.3	1.14±0.02	16.4±0.3
Richland 20's Lights KFSP	11.9±0.2	0.91±0.01	12.5±0.3
Richland 20's Lights 100's 100FSP	12.3±0.3	0.91±0.02	14.0±0.3
Richland (25) KFSP	16.8±0.3	1.16±0.02	16.1±0.4
Richland (25) KFMSP	16.5±0.4	1.08±0.02	15.8±0.4
Richland 100's (25) 100FSP	18.2±0.2	1.35±0.02	17.5±0.3
Richland Lights (25) KFSP	11.6±0.3	0.90±0.02	12.6±0.3
Richland Lights (25) 100's 100FSP	12.6±0.2	0.95±0.02	14.4±0.3
Viceroy KFSP	16.8±0.3	1.11±0.03	15.7±0.4
Viceroy Super Long 100's 100FSP	16.1±0.3	1.17±0.02	15.3±0.3
Viceroy Lights KFSP	11.3±0.2	0.87±0.02	12.7±0.3
Viceroy Lights 100's 100FSP	12.0±0.3	0.92±0.02	13.8±0.3

Rev. 6/90

PM3000761853

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Test Results - Liggett Group Brands

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Chesterfield RNFSP	19.7±0.4	1.26±0.03	12.6±0.3
Chesterfield KNFSP	23.5±0.5	1.58±0.04	14.8±0.4
Chesterfield Lights KFSP	10.0±0.2	0.79±0.01	11.6±0.2
Chesterfield Lights 100s 100FSP	10.3±0.2	0.86±0.01	11.3±0.3
Eve Slim Lights 100's 100FHP	12.7±0.2	1.03±0.02	10.9±0.2
Eve Slim Lights 100's 100FMHP	12.9±0.3	1.03±0.02	10.7±0.3
Eve Lights 120's 120FHP	12.8±0.3	1.11±0.02	11.4±0.3
Eve Lights 120's 120FMHP	13.0±0.2	1.14±0.03	11.5±0.3
Eve Ultra Lights 120's 120FHP	5.4±0.2	0.58±0.02	4.0±0.1
Eve Ultra Lights 120's 120FMHP	5.3±0.2	0.58±0.02	3.9±0.2
L & M KFHP	13.6±0.2	1.07±0.02	12.9±0.2
L & M KFSP	13.6±0.3	1.05±0.02	13.0±0.3
L & M Super 100 100FSP	13.7±0.2	1.09±0.02	14.6±0.3
L & M Long Lights 100FSP	8.2±0.3	0.85±0.02	6.8±0.2
L & M 30's Lights 100's 100FSP	11.9±0.2	1.01±0.02	9.9±0.3
Lark KFSP	14.0±0.2	1.08±0.02	12.3±0.2
Lark 100FSP	14.4±0.2	1.17±0.02	13.6±0.2
Lark Lights KFSP	12.6±0.3	1.01±0.03	11.4±0.3
Lark Light 100's 100FSP	13.0±0.3	1.07±0.02	12.5±0.4
Pyramid KNFSP	22.7±0.4	1.52±0.02	14.7±0.4
Pyramid Lights KFSP	13.5±0.2	1.06±0.02	12.9±0.3
Pyramid Lights 100's 100FSP	13.5±0.2	1.14±0.02	14.5±0.2
Pyramid Ultra Lights 100's 100FSP	5.6±0.1	0.57±0.01	5.1±0.1
Savvy 100's Lights 100FSP	10.1±0.2	0.87±0.02	10.7±0.2
Savvy 100's Lights 100FMSP	10.3±0.2	0.88±0.02	10.9±0.2
Savvy Ultra Lights 100's 100FSP	5.2±0.2	0.54±0.01	5.2±0.1

PM3000761854

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Test Results - Lorillard Brands

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Harley Davidson KFSP	13.9±0.1	0.99±0.01	16.0±0.2
Kent Golden Lights KFHP	8.1±0.2	0.71±0.02	9.2±0.3
Kent Golden Lights KFSP	7.6±0.2	0.69±0.02	8.5±0.3
Kent Golden Lights KFMSP	8.1±0.3	0.73±0.02	8.9±0.4
Kent Golden Lights 100s 100FHP	8.9±0.3	0.83±0.03	9.7±0.4
Kent Golden Lights 100s 100FSP	8.7±0.3	0.80±0.02	9.2±0.5
Kent Golden Lights 100s 100FMSP	9.7±0.4	0.88±0.03	10.5±0.5
Kent KFHP	11.1±0.2	0.82±0.01	12.6±0.2
Kent KFSP	11.8±0.3	0.87±0.02	13.6±0.4
Kent 100s 100FSP	13.9±0.3	1.03±0.02	15.1±0.3
Kent 100s 100FMSP	14.1±0.3	1.04±0.02	14.9±0.3
Kent III KFSP	3.4±0.2	0.34±0.01	4.6±0.2
Kent III 100s 100FHP	4.9±0.2	0.47±0.01	7.2±0.2
Kent III 100s 100FSP	4.7±0.1	0.44±0.01	7.1±0.2
Max 120s 120FSP	17.2±0.2	1.32±0.02	18.6±0.4
Max 120s 120FMSP	16.9±0.4	1.32±0.03	17.6±0.5
Newport KFMHP	15.9±0.3	1.15±0.02	16.9±0.3
Newport KFMSP	16.9±0.2	1.23±0.02	17.7±0.3
Newport 100's 100FMHP	18.7±0.3	1.42±0.03	19.4±0.3
Newport 100's 100FMSP	18.0±0.3	1.37±0.02	18.7±0.4
Newport 25's KFMSP	17.1±0.2	1.24±0.02	18.1±0.2
Newport 25's 100's 100FMSP	19.2±0.2	1.45±0.02	19.4±0.3
Newport Lights KFMHP	8.3±0.1	0.72±0.01	9.2±0.2
Newport Lights KFMSP	8.1±0.3	0.72±0.02	9.0±0.3
Newport Lights 100's 100FMHP	8.7±0.2	0.81±0.02	9.2±0.3
Newport Lights 100's 100FMSP	8.7±0.4	0.80±0.03	9.2±0.4
Newport Stripes 100FHP	11.7±0.2	0.91±0.02	15.5±0.4
Newport Stripes 100FMHP	12.1±0.2	0.90±0.02	16.4±0.4
Newport Stripes Slim Lights 100FMHP	9.6±0.2	0.76±0.01	11.3±0.3
Old Gold Straights KNFSP	26.0±0.7	1.77±0.03	17.9±0.6
Old Gold Filters KFSP	17.2±0.3	1.25±0.02	18.2±0.5
Old Gold Filter 100's 100FSP	18.4±0.3	1.39±0.02	19.2±0.3
Old Gold Lights KFSP	8.7±0.3	0.77±0.02	9.9±0.4
Old Gold Lights 100s 100FSP	12.0±0.2	0.92±0.02	16.4±0.3
Satin 100FSP	11.1±0.3	0.94±0.01	13.3±0.4
Satin 100FMSP	11.3±0.2	0.94±0.02	13.6±0.3
Spring 100's 100FMSP	18.2±0.3	1.40±0.03	18.4±0.4
Triumph KFSP	2.8±0.2	0.30±0.01	3.6±0.2
Triumph KFMSP	3.4±0.2	0.35±0.02	4.4±0.3
Triumph 100s 100FSP	5.4±0.2	0.50±0.01	7.6±0.3
Triumph 100s 100FMSP	5.5±0.2	0.52±0.02	7.8±0.2
True KFSP	4.7±0.3	0.46±0.02	6.1±0.3
True KFMSP	4.6±0.2	0.46±0.01	6.1±0.2
True 100's 100FSP	6.2±0.3	0.60±0.02	7.0±0.3
True 100's 100FMSP	6.5±0.3	0.61±0.02	7.2±0.4

Rev. 6/90

PM3000761855

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Test Results - Philip Morris Brands

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
*Alpine KFMSP	17.0±0.3	1.14±0.02	16.0±0.3
*Alpine 100s 100FMSP	15.4±0.3	1.13±0.02	14.6±0.3
Alpine Lights KFMSP	9.3±0.2	0.74±0.02	10.6±0.2
Alpine Lights 100's 100FMSP	9.5±0.1	0.78±0.01	11.2±0.2
Benson & Hedges KFHP	15.4±0.4	1.25±0.03	12.5±0.4
Benson & Hedges 100's 100FHP	16.4±0.2	1.22±0.02	15.3±0.2
Benson & Hedges 100's 100FMHP	16.5±0.3	1.21±0.02	15.6±0.3
Benson & Hedges 100's 100FSP	16.9±0.3	1.24±0.02	16.8±0.3
Benson & Hedges 100's 100FMSP	15.8±0.2	1.16±0.02	15.9±0.3
Benson & Hedges Deluxe Ultra Lights 100's 100FHP	5.2±0.2	0.48±0.01	6.6±0.2
Benson & Hedges Deluxe Ultra Lights 100's 100FMHP	5.1±0.2	0.47±0.01	6.8±0.2
Benson & Hedges Lights 100's 100FHP	10.8±0.2	0.85±0.02	11.6±0.4
Benson & Hedges Lights 100's 100FMHP	10.2±0.2	0.80±0.02	11.5±0.2
Benson & Hedges Lights 100's 100FSP	10.6±0.3	0.84±0.03	12.8±0.4
Benson & Hedges Lights 100's 100FMSP	10.6±0.2	0.86±0.02	11.7±0.3
*Benson & Hedges Multifilter KFSP	11.3±0.2	0.90±0.02	11.1±0.3
Cambridge Full Flavor KFSP	17.5±0.3	1.14±0.02	15.9±0.2
Cambridge Full Flavor 100's 100FSP	17.3±0.3	1.19±0.02	16.6±0.4
Cambridge Lights KFSP	12.4±0.2	0.89±0.02	12.7±0.2
Cambridge Lights KFMSP	12.0±0.3	0.87±0.02	13.0±0.4
Cambridge Lights 100's 100FSP	11.7±0.2	0.88±0.01	13.6±0.3
Cambridge Lights 100's 100FMSP	11.5±0.2	0.88±0.01	13.6±0.3
Cambridge Ultra Low Tar 100s 100FSP	4.0±0.2	0.38±0.01	6.0±0.2
English Ovals KNFHP	23.5±0.4	1.83±0.04	15.3±0.4
Marlboro KFHP	16.8±0.3	1.17±0.02	14.5±0.4
Marlboro KFSP	16.8±0.3	1.18±0.02	15.1±0.3
Marlboro KFMSP	16.5±0.3	1.16±0.02	15.0±0.3
Marlboro 100's 100FHP	16.6±0.2	1.23±0.02	16.2±0.3
Marlboro 100's 100FSP	16.4±0.3	1.21±0.02	15.7±0.4
Marlboro 25's KFSP	17.1±0.3	1.21±0.02	15.4±0.3
Marlboro Lights KFHP	11.2±0.2	0.85±0.01	12.4±0.3
Marlboro Lights KFMHP	9.8±0.2	0.76±0.02	11.1±0.3
Marlboro Lights KFSP	11.3±0.3	0.86±0.02	11.8±0.3
Marlboro Lights 100's 100FHP	10.8±0.2	0.86±0.02	12.0±0.2
Marlboro Lights 100's 100FMHP	10.0±0.2	0.81±0.01	11.3±0.2
Marlboro Lights 100's 100FSP	10.7±0.2	0.86±0.02	12.0±0.3
Marlboro Lights 25's KFSP	11.0±0.2	0.82±0.02	11.9±0.2
Marlboro 100's Red 100FHP	16.8±0.3	1.27±0.02	17.3±0.3
Marlboro 100's Red 100FSP	16.4±0.2	1.22±0.01	15.9±0.2
Merit KFHP	7.7±0.3	0.62±0.02	10.1±0.3
Merit KFSP	7.8±0.1	0.63±0.01	10.2±0.3
Merit KFMSP	7.9±0.2	0.64±0.01	9.8±0.2
Merit 100's 100FSP	9.8±0.2	0.80±0.02	12.1±0.3
Merit 100's 100FMSP	9.7±0.2	0.78±0.02	11.4±0.3
Merit Ultra Lights KFHP	5.1±0.1	0.49±0.01	6.4±0.2

*Retested brand

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PM3000761856

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Test Results - Philip Morris Brands

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Merit Ultra Lights KFSP	4.8±0.2	0.46±0.02	6.3±0.1
Merit Ultra Lights KFMSP	4.8±0.1	0.46±0.01	6.2±0.2
Merit Ultra Lights 100's 100FHP	5.8±0.1	0.58±0.02	7.1±0.2
Merit Ultra Lights 100's 100FSP	5.3±0.2	0.53±0.01	7.1±0.2
Merit Ultra Lights 100's 100FMSP	5.2±0.2	0.51±0.01	7.2±0.3
Parliament Lights KFHP	9.2±0.2	0.74±0.01	9.9±0.3
Parliament Lights KFSP	9.4±0.2	0.76±0.01	10.7±0.3
Parliament Lights 100's 100FSP	12.2±0.2	1.02±0.02	12.8±0.3
*Philip Morris RNFSP	23.5±0.5	1.43±0.03	13.6±0.5
Philip Morris Commander KNFSP	26.1±0.4	1.65±0.03	16.1±0.5
Philip Morris International 100FHP	16.7±0.2	1.25±0.02	16.1±0.3
Philip Morris International 100FMHP	16.8±0.2	1.28±0.02	15.6±0.2
Players RNFHP	24.7±0.4	1.74±0.03	15.4±0.4
Players KFHP	12.0±0.3	0.87±0.02	12.6±0.3
Players KFMHP	11.8±0.2	0.86±0.01	12.6±0.2
Players 100's 100FHP	14.2±0.2	1.04±0.02	12.9±0.2
Players 100's 100FMHP	13.9±0.2	1.03±0.02	12.5±0.2
Players Lights 25's KFSP	10.4±0.1	0.77±0.01	11.3±0.2
Players Lights 25's KFMSP	10.1±0.2	0.74±0.02	11.2±0.2
Players 25's Lights 100's 100FSP	11.8±0.2	0.88±0.02	13.7±0.3
Players 25's Lights 100's 100FMSP	11.5±0.2	0.87±0.01	13.5±0.3
Saratoga 120's 120FHP	15.1±0.3	1.17±0.02	15.0±0.4
Saratoga 120's 120FMHP	14.8±0.2	1.13±0.02	14.3±0.3
Virginia Slims 100FSP	15.0±0.3	1.12±0.02	13.2±0.2
Virginia Slims 100FMSP	15.3±0.2	1.15±0.02	13.3±0.3
Virginia Slims Lights 100FHP	8.7±0.2	0.72±0.02	9.6±0.3
Virginia Slims Lights 100FMHP	8.6±0.2	0.71±0.01	9.6±0.2
Virginia Slims Lights 120's 120FHP	14.3±0.3	1.13±0.02	13.9±0.4
Virginia Slims Lights 120's 120FMHP	13.7±0.3	1.09±0.02	13.3±0.3
Virginia Slims Ultra Lights 100 100FHP	4.9±0.1	0.47±0.01	5.4±0.2
Virginia Slims Ultra Lights 100 100FMHP	4.8±0.2	0.45±0.02	5.2±0.2

*Retested brand

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Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Test Results - R.J. Reynolds Brands

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Camel RNFSP	22.5±0.4	1.42±0.03	14.0±0.3
Camel Filters KFHP	16.9±0.3	1.04±0.02	16.1±0.3
Camel Filters KFSP	14.8±0.2	0.96±0.02	14.3±0.3
Camel Filters 100's 100FSP	17.3±0.2	1.04±0.02	18.9±0.3
Camel Lights KFHP	9.4±0.2	0.62±0.01	11.6±0.2
Camel Lights KFSP	9.4±0.1	0.66±0.01	11.9±0.2
Camel Lights 100's 100FSP	11.0±0.2	0.78±0.01	13.7±0.3
Century 25's (25) KFSP	15.1±0.3	0.97±0.02	17.4±0.4
Century 25's 100's 100FSP	17.2±0.2	1.14±0.02	20.4±0.3
Century 25's Lights (25) KFSP	9.4±0.2	0.68±0.01	11.0±0.3
Century 25's Lights 100's 100FSP	11.5±0.2	0.89±0.02	13.0±0.3
Century 25's Lights 100's 100FMSP	11.1±0.3	0.82±0.02	12.5±0.4
Doral Full Flavor KFSP	16.2±0.3	1.02±0.03	16.5±0.4
Doral Full Flavor KFMSP	16.3±0.2	1.09±0.02	16.1±0.3
Doral Full Flavor 100's 100FSP	16.2±0.3	1.11±0.03	18.1±0.4
Doral Full Flavor 100's 100FMSP	15.8±0.2	1.13±0.02	17.3±0.2
Doral Lights KFSP	9.8±0.2	0.72±0.02	11.2±0.3
Doral Menthol Lights KFMSP	10.0±0.3	0.73±0.02	11.4±0.4
Doral Lights 100's 100FSP	10.3±0.3	0.83±0.02	10.5±0.4
Doral Menthol Lights 100's 100FMSP	10.9±0.2	0.88±0.02	11.2±0.3
Doral Ultra Lights 100's 100FSP	4.9±0.2	0.46±0.01	7.8±0.3
Magna KFHP	13.9±0.2	0.89±0.02	14.9±0.3
Magna KFSP	13.5±0.2	0.93±0.01	13.9±0.3
Magna Lites KFSP	9.4±0.2	0.65±0.02	13.4±0.3
More 120s 120FSP	17.0±0.2	1.21±0.02	21.8±0.3
More 120s 120FMSP	17.2±0.3	1.32±0.02	21.9±0.5
More Lights 100s 100FHP	10.4±0.3	0.84±0.02	11.1±0.3
More Lights 100s 100FMHP	9.5±0.2	0.72±0.01	10.8±0.2
More Lights 120s 120FSP	12.1±0.2	0.91±0.02	18.8±0.4
More Lights 120s 120FMSP	12.6±0.3	0.99±0.02	19.5±0.5
More White Lights 120s 120FSP	9.8±0.1	0.74±0.01	13.5±0.3
More White Lights 120s 120FMSP	10.3±0.2	0.81±0.02	14.8±0.3
Now KFHP	< 0.5	< 0.05	< 0.5
Now KFSP	0.7±0.1	0.13±0.01	2.0±0.1
Now KFMSP	0.8±0.1	0.12±0.01	2.2±0.1
Now 100s 100FHP	< 0.5	< 0.05	< 0.5
Now 100s 100FSP	1.6±0.1	0.20±0.01	2.8±0.1
Now 100s 100FMSP	2.4±0.1	0.25±0.01	4.0±0.2
Ritz 100 100FHP	9.8±0.3	0.77±0.02	10.7±0.3
Ritz 100 100FMHP	10.8±0.2	0.78±0.01	11.0±0.3
Salem KFMSP	16.8±0.2	1.16±0.02	16.7±0.2
Salem 100's 100FMSP	16.4±0.3	1.15±0.02	16.0±0.4
Salem Lights KFMSP	9.4±0.2	0.70±0.01	12.0±0.3
Salem Lights 100's 100FMHP	10.8±0.2	0.83±0.01	11.3±0.3
Salem Lights 100's 100FMSP	8.2±0.2	0.68±0.02	10.0±0.2
Salem Slim Lights 100's 100FMHP	9.5±0.2	0.75±0.01	10.0±0.2
Salem Ultra Lights KFMSP	4.9±0.1	0.44±0.01	7.6±0.2

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PM3000761858

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Test Results - R.J. Reynolds Brands

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Salem Ultra Lights 100's 100FMSP	4.5±0.2	0.41±0.01	7.0±0.3
Vantage KFSP	10.3±0.1	0.73±0.01	13.4±0.2
Vantage KFMSP	9.8±0.2	0.68±0.01	12.2±0.2
Vantage 100s 100FSP	8.5±0.1	0.64±0.01	11.4±0.2
Vantage Menthol 100s 100FMSP	8.2±0.2	0.60±0.01	12.6±0.3
Vantage Excell 100's 100FSP	8.8±0.2	0.72±0.02	9.2±0.3
Vantage Ultra Lights KFSP	5.0±0.1	0.43±0.01	7.4±0.2
Vantage Ultra Lights 100s 100FSP	4.9±0.1	0.44±0.01	8.0±0.2
Winston KFHP	16.8±0.3	1.05±0.02	15.8±0.3
Winston KFSP	16.6±0.3	1.11±0.02	16.2±0.3
Winston 100's 100FSP	17.1±0.2	1.05±0.01	19.1±0.3
Winston Lights KFHP	9.6±0.2	0.62±0.01	11.5±0.2
Winston Lights KFSP	9.5±0.2	0.66±0.02	11.4±0.2
Winston Lights 100's 100FHP	9.9±0.2	0.72±0.02	12.3±0.4
Winston Lights 100's 100FSP	11.1±0.2	0.79±0.01	12.7±0.2
Winston Ultra Lights KFSP	5.4±0.1	0.47±0.01	8.5±0.2
Winston Ultra Lights 100's 100FSP	4.8±0.1	0.43±0.01	8.3±0.2

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Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Test Results - Larus & Brother Brands

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Craven "A" KFHP	15.6±0.2	1.19±0.02	16.3±0.3
Craven "A" Filter Standard Size RFHP	18.7±0.4	1.54±0.03	14.1±0.3
Dunhill International 100FHP	16.9±0.2	1.56±0.03	17.3±0.3
Dunhill Menthol 100FMHP	14.8±0.2	1.26±0.02	17.1±0.2
Dunhill Menthol Mild 100FMHP	10.8±0.4	0.97±0.03	13.0±0.4
Dunhill International Superior Mild 100FHP	8.5±0.3	0.79±0.02	9.8±0.3
Rothmans KFHP	18.0±0.3	1.36±0.02	18.9±0.3
Rothmans Special Mild KFHP	14.1±0.3	1.11±0.02	15.9±0.2
St. Moritz Filter 100FSP	14.9±0.2	1.09±0.02	15.5±0.2
St. Moritz Menthol 100FMSP	14.2±0.3	0.93±0.02	16.0±0.4

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Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Appendix B

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Sorted "Tar" Results

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Carlton KFMSP	< 0.5	0.09±0.01	1.3±0.1
Carlton 100's 100FHP	< 0.5	0.09±0.00	0.9±0.1
Carlton 100's 100FMHP	< 0.5	0.09±0.00	0.9±0.1
Carlton Ultra KFHP	< 0.5	< 0.05	< 0.5
Now KFHP	< 0.5	< 0.05	< 0.5
Now 100s 100FHP	< 0.5	< 0.05	< 0.5
Carlton 83 KFHP	0.7±0.1	0.12±0.01	1.6±0.1
Now KFSP	0.7±0.1	0.13±0.01	2.0±0.1
Now KFMSP	0.8±0.1	0.12±0.01	2.2±0.1
Carlton KFSP	0.9±0.1	0.13±0.01	2.0±0.1
Now 100s 100FSP	1.6±0.1	0.20±0.01	2.8±0.1
Kool Ultra KFMSP	1.8±0.1	0.18±0.01	2.1±0.1
Now 100s 100FMSP	2.4±0.1	0.25±0.01	4.0±0.2
Carlton 100's 100FSP	2.7±0.1	0.29±0.01	3.8±0.2
Triumph KFSP	2.8±0.2	0.30±0.01	3.6±0.2
Kent III KFSP	3.4±0.2	0.34±0.01	4.6±0.2
Triumph KFMSP	3.4±0.2	0.35±0.02	4.4±0.3
Cambridge Ultra Low Tar 100s 100FSP	4.0±0.2	0.38±0.01	6.0±0.2
Carlton 100's 100FMSP	4.4±0.2	0.42±0.01	6.2±0.2
Salem Ultra Lights 100's 100FMSP	4.5±0.2	0.41±0.01	7.0±0.3
True KFMSP	4.6±0.2	0.46±0.01	6.1±0.2
True KFSP	4.7±0.3	0.46±0.02	6.1±0.3
Kent III 100s 100FSP	4.7±0.1	0.44±0.01	7.1±0.2
Virginia Slims Ultra Lights 100 100FMHP	4.8±0.2	0.45±0.02	5.2±0.2
Merit Ultra Lights KFMSP	4.8±0.1	0.46±0.01	6.2±0.2
Merit Ultra Lights KFSP	4.8±0.2	0.46±0.02	6.3±0.1
Winston Ultra Lights 100's 100FSP	4.8±0.1	0.43±0.01	8.3±0.2
Kool Ultra 100's 100FMSP	4.8±0.2	0.43±0.02	5.0±0.2
Salem Ultra Lights KFMSP	4.9±0.1	0.44±0.01	7.6±0.2
Kent III 100s 100FHP	4.9±0.2	0.47±0.01	7.2±0.2
Virginia Slims Ultra Lights 100 100FHP	4.9±0.1	0.47±0.01	5.4±0.2
Doral Ultra Lights 100's 100FSP	4.9±0.2	0.46±0.01	7.8±0.3
Vantage Ultra Lights 100s 100FSP	4.9±0.1	0.44±0.01	8.0±0.2
Vantage Ultra Lights KFSP	5.0±0.1	0.43±0.01	7.4±0.2
Merit Ultra Lights KFHP	5.1±0.1	0.49±0.01	6.4±0.2
Tareyton Lights KFSP	5.1±0.3	0.44±0.02	5.7±0.4
Benson & Hedges Deluxe Ultra Lights 100's 100FMHP	5.1±0.2	0.47±0.01	6.8±0.2
Merit Ultra Lights 100's 100FMSP	5.2±0.2	0.51±0.01	7.2±0.3
Savvy Ultra Lights 100's 100FSP	5.2±0.2	0.54±0.01	5.2±0.1
Benson & Hedges Deluxe Ultra Lights 100's 100FHP	5.2±0.2	0.48±0.01	6.6±0.2
Eve Ultra Lights 120's 120FMHP	5.3±0.2	0.58±0.02	3.9±0.2
Merit Ultra Lights 100's 100FSP	5.3±0.2	0.53±0.01	7.1±0.2
Triumph 100s 100FSP	5.4±0.2	0.50±0.01	7.6±0.3
Eve Ultra Lights 120's 120FHP	5.4±0.2	0.58±0.02	4.0±0.1
Winston Ultra Lights KFSP	5.4±0.1	0.47±0.01	8.5±0.2
Triumph 100s 100FMSP	5.5±0.2	0.52±0.02	7.8±0.2
Pyramid Ultra Lights 100's 100FSP	5.6±0.1	0.57±0.01	5.1±0.1

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PM3000761862

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Sorted "Tar" Results

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Merit Ultra Lights 100's 100FHP	5.8±0.1	0.58±0.02	7.1±0.2
Carlton 120's 120FMSP	5.9±0.2	0.59±0.02	5.1±0.1
Carlton 120's 120FSP	6.1±0.2	0.61±0.02	5.5±0.2
True 100's 100FSP	6.2±0.3	0.60±0.02	7.0±0.3
True 100's 100FMSP	6.5±0.3	0.61±0.02	7.2±0.4
Kent Golden Lights KFSP	7.6±0.2	0.69±0.02	8.5±0.3
Merit KFHP	7.7±0.3	0.62±0.02	10.1±0.3
Merit KFSP	7.8±0.1	0.63±0.01	10.2±0.3
Merit KFMSP	7.9±0.2	0.64±0.01	9.8±0.2
Tareyton Long Lights 100FSP	7.9±0.3	0.68±0.02	8.8±0.4
Kent Golden Lights KFHP	8.1±0.2	0.71±0.02	9.2±0.3
Kool Lights KFMSP	8.1±0.2	0.67±0.02	9.0±0.2
Newport Lights KFMSP	8.1±0.3	0.72±0.02	9.0±0.3
Kent Golden Lights KFMSP	8.1±0.3	0.73±0.02	8.9±0.4
Belair 100's 100FMSP	8.1±0.2	0.62±0.01	8.7±0.2
Vantage Menthol 100s 100FMSP	8.2±0.2	0.60±0.01	12.6±0.3
Salem Lights 100's 100FMSP	8.2±0.2	0.68±0.02	10.0±0.2
L & M Long Lights 100FSP	8.2±0.3	0.85±0.02	6.8±0.2
Newport Lights KFMHP	8.3±0.1	0.72±0.01	9.2±0.2
Lucky Strike Lights KFSP	8.4±0.2	0.68±0.01	10.1±0.3
Vantage 100s 100FSP	8.5±0.1	0.64±0.01	11.4±0.2
Dunhill International Superior Mild 100FHP	8.5±0.3	0.79±0.02	9.8±0.3
Virginia Slims Lights 100FMHP	8.6±0.2	0.71±0.01	9.6±0.2
Virginia Slims Lights 100FHP	8.7±0.2	0.72±0.02	9.6±0.3
Newport Lights 100's 100FMHP	8.7±0.2	0.81±0.02	9.2±0.3
Newport Lights 100's 100FMSP	8.7±0.4	0.80±0.03	9.2±0.4
Kool Lights 100's 100FMSP	8.7±0.3	0.74±0.02	10.0±0.4
Old Gold Lights KFSP	8.7±0.3	0.77±0.02	9.9±0.4
Kent Golden Lights 100s 100FSP	8.7±0.3	0.80±0.02	9.2±0.5
Vantage Excell 100's 100FSP	8.8±0.2	0.72±0.02	9.2±0.3
Lucky Strike Lights 100's 100FSP	8.9±0.2	0.76±0.02	9.8±0.3
Kent Golden Lights 100s 100FHP	8.9±0.3	0.83±0.03	9.7±0.4
Malibu Lights 100's 100FSP	8.9±0.2	0.75±0.02	10.5±0.2
Falcon Lights 100's 100FMSP	9.0±0.3	0.75±0.02	10.8±0.3
Parliament Lights KFHP	9.2±0.2	0.74±0.01	9.9±0.3
Alpine Lights KFMSP	9.3±0.2	0.74±0.02	10.6±0.2
Pall Mall Red Lights 100's 100FSP	9.3±0.2	0.79±0.01	9.6±0.2
Magna Lites KFSP	9.4±0.2	0.65±0.02	13.4±0.3
Camel Lights KFSP	9.4±0.1	0.66±0.01	11.9±0.2
Parliament Lights KFSP	9.4±0.2	0.76±0.01	10.7±0.3
Camel Lights KFHP	9.4±0.2	0.62±0.01	11.6±0.2
Salem Lights KFMSP	9.4±0.2	0.70±0.01	12.0±0.3
Century 25's Lights (25) KFSP	9.4±0.2	0.68±0.01	11.0±0.3
Capri 100FMHP	9.5±0.2	0.75±0.02	6.3±0.2
More Lights 100s 100FMHP	9.5±0.2	0.72±0.01	10.8±0.2
Alpine Lights 100's 100FMSP	9.5±0.1	0.78±0.01	11.2±0.2
Salem Slim Lights 100's 100FMHP	9.5±0.2	0.75±0.01	10.0±0.2

Rev. 6/90

PM3000761863

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Sorted "Tar" Results

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Winston Lights KFSP	9.5±0.2	0.66±0.02	11.4±0.2
Winston Lights KFHP	9.6±0.2	0.62±0.01	11.5±0.2
Malibu Lights KFSP	9.6±0.2	0.76±0.01	10.2±0.3
Capri 100FHP	9.6±0.2	0.80±0.02	6.5±0.2
Newport Stripes Slim Lights 100FMHP	9.6±0.2	0.76±0.01	11.3±0.3
Merit 100's 100FMSP	9.7±0.2	0.78±0.02	11.4±0.3
Kent Golden Lights 100s 100FMSP	9.7±0.4	0.88±0.03	10.5±0.5
Merit 100's 100FSP	9.8±0.2	0.80±0.02	12.1±0.3
Marlboro Lights KFMHP	9.8±0.2	0.76±0.02	11.1±0.3
Vantage KFMSP	9.8±0.2	0.68±0.01	12.2±0.2
Doral Lights KFSP	9.8±0.2	0.72±0.02	11.2±0.3
Ritz 100 100FHP	9.8±0.3	0.77±0.02	10.7±0.3
More White Lights 120s 120FSP	9.8±0.1	0.74±0.01	13.5±0.3
Winston Lights 100's 100FHP	9.9±0.2	0.72±0.02	12.3±0.4
Doral Menthol Lights KFMSP	10.0±0.3	0.73±0.02	11.4±0.4
Marlboro Lights 100's 100FMHP	10.0±0.2	0.81±0.01	11.3±0.2
Chesterfield Lights KFSP	10.0±0.2	0.79±0.01	11.6±0.2
Savvy 100's Lights 100FSP	10.1±0.2	0.87±0.02	10.7±0.2
Players Lights 25's KFMSP	10.1±0.2	0.74±0.02	11.2±0.2
Benson & Hedges Lights 100's 100FMHP	10.2±0.2	0.80±0.02	11.5±0.2
Pall Mall Red Lights KFSP	10.2±0.2	0.82±0.01	10.5±0.2
Pall Mall Lights 100's 100FSP	10.3±0.3	0.85±0.02	11.8±0.3
More White Lights 120s 120FMSP	10.3±0.2	0.81±0.02	14.8±0.3
Doral Lights 100's 100FSP	10.3±0.3	0.83±0.02	10.5±0.4
Savvy 100's Lights 100FMSP	10.3±0.2	0.88±0.02	10.9±0.2
Chesterfield Lights 100s 100FSP	10.3±0.2	0.86±0.01	11.3±0.3
Vantage KFSP	10.3±0.1	0.73±0.01	13.4±0.2
Falcon Lights KFMSP	10.4±0.3	0.79±0.02	12.0±0.4
Players Lights 25's KFSP	10.4±0.1	0.77±0.01	11.3±0.2
More Lights 100s 100FHP	10.4±0.3	0.84±0.02	11.1±0.3
Belair KFMSP	10.5±0.2	0.82±0.02	9.6±0.2
Benson & Hedges Lights 100's 100FMSP	10.6±0.2	0.86±0.02	11.7±0.3
Benson & Hedges Lights 100's 100FSP	10.6±0.3	0.84±0.03	12.8±0.4
Marlboro Lights 100's 100FSP	10.7±0.2	0.86±0.02	12.0±0.3
Ritz 100 100FMHP	10.8±0.2	0.78±0.01	11.0±0.3
Dunhill Menthol Mild 100FMHP	10.8±0.4	0.97±0.03	13.0±0.4
Benson & Hedges Lights 100's 100FHP	10.8±0.2	0.85±0.02	11.6±0.4
Marlboro Lights 100's 100FHP	10.8±0.2	0.86±0.02	12.0±0.2
Salem Lights 100's 100FMHP	10.8±0.2	0.83±0.01	11.3±0.3
Falcon Lights KFSP	10.9±0.3	0.74±0.02	11.0±0.3
Doral Menthol Lights 100's 100FMSP	10.9±0.2	0.88±0.02	11.2±0.3
Camel Lights 100's 100FSP	11.0±0.2	0.78±0.01	13.7±0.3
Marlboro Lights 25's KFSP	11.0±0.2	0.82±0.02	11.9±0.2
Satin 100FSP	11.1±0.3	0.94±0.01	13.3±0.4
Kent KFHP	11.1±0.2	0.82±0.01	12.6±0.2
Winston Lights 100's 100FSP	11.1±0.2	0.79±0.01	12.7±0.2
Century 25's Lights 100's 100FMSP	11.1±0.3	0.82±0.02	12.5±0.4

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PM3000761864

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Sorted "Tar" Results

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Marlboro Lights KFHP	11.2±0.2	0.85±0.01	12.4±0.3
Falcon Lights 100's 100FSP	11.2±0.3	0.79±0.02	14.2±0.4
Marlboro Lights KFSP	11.3±0.3	0.86±0.02	11.8±0.3
Viceroy Lights KFSP	11.3±0.2	0.87±0.02	12.7±0.3
Satin 100FMSP	11.3±0.2	0.94±0.02	13.6±0.3
*Benson & Hedges Multifilter KFSP	11.3±0.2	0.90±0.02	11.3±0.3
Raleigh Lights KFSP	11.4±0.3	0.89±0.02	12.5±0.3
Players 25's Lights 100's 100FMSP	11.5±0.2	0.87±0.01	13.5±0.3
Kool Milds KFMHP	11.5±0.2	0.87±0.01	11.4±0.2
Malibu Menthol 100's 100FMSP	11.5±0.3	0.93±0.02	12.1±0.4
Century 25's Lights 100's 100FSP	11.5±0.2	0.89±0.02	13.0±0.3
Cambridge Lights 100's 100FMSP	11.5±0.2	0.88±0.01	13.6±0.3
Richland Lights (25) KFSP	11.6±0.3	0.90±0.02	12.6±0.3
Newport Stripes 100FHP	11.7±0.2	0.91±0.02	15.5±0.4
Cambridge Lights 100's 100FSP	11.7±0.2	0.88±0.01	13.6±0.3
Players 25's Lights 100's 100FSP	11.8±0.2	0.88±0.02	13.7±0.3
Players KFMHP	11.8±0.2	0.86±0.01	12.6±0.2
L & M 30's Lights 100's 100FSP	11.9±0.2	1.01±0.02	9.9±0.3
Richland 20's Lights KFSP	11.9±0.2	0.91±0.01	12.5±0.3
American Lights KFSP	12.0±0.2	0.91±0.01	12.7±0.2
Old Gold Lights 100s 100FSP	12.0±0.2	0.92±0.02	16.4±0.3
Lucky Strike KFHP	12.0±0.2	0.92±0.02	12.8±0.2
Viceroy Lights 100's 100FSP	12.0±0.3	0.92±0.02	13.8±0.3
Cambridge Lights KFMSP	12.0±0.3	0.87±0.02	13.0±0.4
Kent KFSP	11.8±0.3	0.87±0.02	13.6±0.4
Players KFHP	12.0±0.3	0.87±0.02	12.6±0.3
Capri 120's 120FMHP	12.1±0.2	0.96±0.02	7.5±0.2
Newport Stripes 100FMHP	12.1±0.2	0.90±0.02	16.4±0.4
More Lights 120s 120FSP	12.1±0.2	0.91±0.02	18.8±0.4
Kool Milds 100's 100FMSP	12.1±0.3	0.95±0.02	13.0±0.3
Parliament Lights 100's 100FSP	12.2±0.2	1.02±0.02	12.8±0.3
Kool Milds KFMSP	12.2±0.2	0.94±0.03	12.6±0.2
American Lights 100's 100FSP	12.3±0.3	0.97±0.02	13.2±0.4
Silva Thins Menthol 100FMHP	12.3±0.2	0.99±0.02	11.9±0.3
Prince Lights KFSP	12.3±0.3	1.08±0.02	12.4±0.3
Raleigh Lights 100's 100FSP	12.3±0.2	0.92±0.01	14.6±0.3
Richland 20's Lights 100's 100FSP	12.3±0.3	0.91±0.02	14.0±0.3
Lucky Strike KFSP	12.3±0.3	0.92±0.02	12.8±0.4
Lucky Strike Filters 100's 100FSP	12.4±0.3	0.96±0.02	13.0±0.3
Cambridge Lights KFSP	12.4±0.2	0.89±0.02	12.7±0.2
Silva Thins Filters 100FHP	12.4±0.2	1.01±0.02	11.8±0.2
More Lights 120s 120FMSP	12.6±0.3	0.99±0.02	19.5±0.5
Richland Lights (25) 100's 100FSP	12.6±0.2	0.95±0.02	14.4±0.3
Lark Lights KFSP	12.6±0.3	1.01±0.03	11.4±0.3
Eve Slim Lights 100's 100FHP	12.7±0.2	1.03±0.02	10.9±0.2

*Retested brand

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PM3000761865

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Sorted "Tar" Results

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Eve Lights 120's 120FHP	12.8±0.3	1.11±0.02	11.4±0.3
Eve Slim Lights 100's 100FMHP	12.9±0.3	1.03±0.02	10.7±0.3
Eve Lights 120's 120FMHP	13.0±0.2	1.14±0.03	11.5±0.3
Lark Light 100's 100FSP	13.0±0.3	1.07±0.02	12.5±0.4
Pyramid Lights 100's 100FSP	13.5±0.2	1.14±0.02	14.5±0.2
Magna KFSP	13.5±0.2	0.93±0.01	13.9±0.3
Pyramid Lights KFSP	13.5±0.2	1.06±0.02	12.9±0.3
L & M KFSP	13.6±0.3	1.05±0.02	13.0±0.3
L & M KFHP	13.6±0.2	1.07±0.02	12.9±0.2
Virginia Slims Lights 120's 120FMHP	13.7±0.3	1.09±0.02	13.3±0.3
L & M Super 100 100FSP	13.7±0.2	1.09±0.02	14.6±0.3
Magna KFHP	13.9±0.2	0.89±0.02	14.9±0.3
Kent 100s 100FSP	13.9±0.3	1.03±0.02	15.1±0.3
Harley Davidson KFSP	13.9±0.1	0.99±0.01	16.0±0.2
Tareyton 100's 100FSP	13.9±0.2	1.02±0.02	16.7±0.3
Players 100's 100FMHP	13.9±0.2	1.03±0.02	12.5±0.2
Capri 120's 120FHP	14.0±0.2	1.12±0.02	9.8±0.3
Lark KFSP	14.0±0.2	1.08±0.02	12.3±0.2
Rothmans Special Mild KFHP	14.1±0.3	1.11±0.02	15.9±0.2
Kent 100s 100FMSP	14.1±0.3	1.04±0.02	14.9±0.3
Players 100's 100FHP	14.2±0.2	1.04±0.02	12.9±0.2
Tareyton KFSP	14.2±0.3	0.99±0.02	15.6±0.3
St. Moritz Menthol 100FMSP	14.2±0.3	0.93±0.02	16.0±0.4
Virginia Slims Lights 120's 120FHP	14.3±0.3	1.13±0.02	13.9±0.4
Malibu 100's 100FSP	14.3±0.5	1.12±0.03	13.7±0.5
Lark 100FSP	14.4±0.2	1.17±0.02	13.6±0.2
Camel Filters KFSP	14.8±0.2	0.96±0.02	14.3±0.3
Dunhill Menthol 100FMHP	14.8±0.2	1.26±0.02	17.1±0.2
Saratoga 120's 120FMHP	14.8±0.2	1.13±0.02	14.3±0.3
St. Moritz Filter 100FSP	14.9±0.2	1.09±0.02	15.5±0.2
Virginia Slims 100FSP	15.0±0.3	1.12±0.02	13.2±0.2
Saratoga 120's 120FHP	15.1±0.3	1.17±0.02	15.0±0.4
Century 25's (25) KFSP	15.1±0.3	0.97±0.02	17.4±0.4
Pall Mall Red Filters KFSP	15.2±0.4	1.13±0.03	13.6±0.3
Raleigh KFSP	15.3±0.4	0.96±0.03	14.4±0.3
Virginia Slims 100FMSP	15.3±0.2	1.15±0.02	13.3±0.3
*Alpine 100s 100FMSP	15.4±0.3	1.13±0.02	14.6±0.3
Benson & Hedges KFHP	15.4±0.4	1.25±0.03	12.5±0.4
Raleigh 100's 100FSP	15.5±0.4	0.97±0.02	15.7±0.3
Craven "A" KFHP	15.6±0.2	1.19±0.02	16.3±0.3
Pall Mall Red Filters 100's 100FSP	15.6±0.3	1.17±0.02	14.9±0.3
Doral Full Flavor 100's 100FMSP	15.8±0.2	1.13±0.02	17.3±0.2
Benson & Hedges 100's 100FMSP	15.8±0.2	1.16±0.02	15.9±0.3
Newport KFMHP	15.9±0.3	1.15±0.02	16.9±0.3
Kool KFMHP	15.9±0.4	1.09±0.02	15.6±0.4

*Retested brand

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PM3000761866

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Sorted "Tar" Results

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Malibu Menthol KFMSP	16.1±0.3	1.18±0.02	14.0±0.3
Richland 20's KFMSP	16.1±0.3	1.05±0.02	15.5±0.4
Viceroy Super Long 100's 100FSP	16.1±0.3	1.17±0.02	15.3±0.3
Doral Full Flavor KFSP	16.2±0.3	1.02±0.03	16.5±0.4
Doral Full Flavor 100's 100FSP	16.2±0.3	1.11±0.03	18.1±0.4
Richland 20's Menthol 100's 100FMSP	16.3±0.3	1.14±0.02	16.4±0.3
Doral Full Flavor KFMSP	16.3±0.2	1.09±0.02	16.1±0.3
Salem 100's 100FMSP	16.4±0.3	1.15±0.02	16.0±0.4
Marlboro 100's 100FSP	16.4±0.3	1.21±0.02	15.7±0.4
American Filter King KFSP	16.4±0.2	1.15±0.01	14.5±0.3
Marlboro 100's Red 100FSP	16.4±0.2	1.22±0.01	15.9±0.2
Benson & Hedges 100's 100FHP	16.4±0.2	1.22±0.02	15.3±0.2
American Filter 100's 100FSP	16.4±0.2	1.21±0.02	14.5±0.3
Prince KFSP	16.5±0.2	1.31±0.02	18.0±0.2
Richland (25) KFMSP	16.5±0.4	1.08±0.02	15.8±0.4
Benson & Hedges 100's 100FMHP	16.5±0.3	1.21±0.02	15.6±0.3
Marlboro KFMSP	16.5±0.3	1.16±0.02	15.0±0.3
Malibu Filters KFSP	16.6±0.3	1.20±0.02	14.9±0.3
Winston KFSP	16.6±0.3	1.11±0.02	16.2±0.3
Marlboro 100's 100FHP	16.6±0.2	1.23±0.02	16.2±0.3
Philip Morris International 100FHP	16.7±0.2	1.25±0.02	16.1±0.3
Viceroy KFSP	16.8±0.3	1.11±0.03	15.7±0.4
Richland (25) KFSP	16.8±0.3	1.16±0.02	16.1±0.4
Marlboro KFSP	16.8±0.3	1.18±0.02	15.1±0.3
Winston KFHP	16.8±0.3	1.05±0.02	15.8±0.3
Marlboro KFHP	16.8±0.3	1.17±0.02	14.5±0.4
Philip Morris International 100FMHP	16.8±0.2	1.28±0.02	15.6±0.2
Marlboro 100's Red 100FHP	16.8±0.3	1.27±0.02	17.3±0.3
Salem KFMSP	16.8±0.2	1.16±0.02	16.7±0.2
Camel Filters KFHP	16.9±0.3	1.04±0.02	16.1±0.3
Benson & Hedges 100's 100FSP	16.9±0.3	1.24±0.02	16.8±0.3
Dunhill International 100FHP	16.9±0.2	1.56±0.03	17.3±0.3
Newport KFMSP	16.9±0.2	1.23±0.02	17.7±0.3
Max 120s 120FMSP	16.9±0.4	1.32±0.03	17.6±0.5
*Alpine KFMSP	17.0±0.3	1.14±0.02	16.0±0.3
Kool KFMSP	17.0±0.3	1.19±0.03	16.0±0.4
More 120s 120FSP	17.0±0.2	1.21±0.02	21.8±0.3
Newport 25's KFMSP	17.1±0.2	1.24±0.02	18.1±0.2
Marlboro 25's KFSP	17.1±0.3	1.21±0.02	15.4±0.3
Winston 100's 100FSP	17.1±0.2	1.05±0.01	19.1±0.3
Max 120s 120FSP	17.2±0.2	1.32±0.02	18.6±0.4
Old Gold Filters KFSP	17.2±0.3	1.25±0.02	18.2±0.5
More 120s 120FMSP	17.2±0.3	1.32±0.02	21.9±0.5
Richland 20's KFSP	17.2±0.4	1.18±0.02	16.2±0.3
Century 25's 100's 100FSP	17.2±0.2	1.14±0.02	20.4±0.3

*Retested brand

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PM3000761867

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Sorted "Tar" Results

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Kool Super Longs 100's 100FMSP	17.2±0.3	1.27±0.03	16.9±0.3
Cambridge Full Flavor 100's 100FSP	17.3±0.3	1.19±0.02	16.6±0.4
Camel Filters 100's 100FSP	17.3±0.2	1.04±0.02	18.9±0.3
Cambridge Full Flavor KFSP	17.5±0.3	1.14±0.02	15.9±0.2
Pall Mall 100's 100FSP	17.5±0.2	1.34±0.02	17.2±0.2
Richland 20's 100's 100FSP	17.8±0.3	1.30±0.02	17.0±0.3
Rothmans KFHP	18.0±0.3	1.36±0.02	18.9±0.3
Newport 100's 100FMSP	18.0±0.3	1.37±0.02	18.7±0.4
Richland 100's (25) 100FSP	18.2±0.2	1.35±0.02	17.5±0.3
Spring 100's 100FMSP	18.2±0.3	1.40±0.03	18.4±0.4
Tall 120s 120FMSP	18.4±0.3	1.57±0.03	17.5±0.3
Old Gold Filter 100's 100FSP	18.4±0.3	1.39±0.02	19.2±0.3
Craven "A" Filter Standard Size RFHP	18.7±0.4	1.54±0.03	14.1±0.3
Newport 100's 100FMHP	18.7±0.3	1.42±0.03	19.4±0.3
Tall 120s 120FSP	18.9±0.3	1.56±0.03	19.2±0.3
Newport 25's 100's 100FMSP	19.2±0.2	1.45±0.02	19.4±0.3
Chesterfield RNFSP	19.7±0.4	1.26±0.03	12.6±0.3
Kool RNFMSP	21.5±0.8	1.39±0.02	14.6±0.3
Camel RNFSP	22.5±0.4	1.42±0.03	14.0±0.3
Pyramid KNFSP	22.7±0.4	1.52±0.02	14.7±0.4
English Ovals KNFHP	23.5±0.4	1.83±0.04	15.3±0.4
Chesterfield KNFSP	23.5±0.5	1.58±0.04	14.8±0.4
*Philip Morris RNFSP	23.5±0.5	1.43±0.03	13.6±0.5
Pall Mall KNFSP	24.7±0.6	1.65±0.04	16.3±0.5
Players RNFHP	24.7±0.4	1.74±0.03	15.4±0.4
Pall Mall 25's KNFSP	25.0±0.3	1.66±0.03	16.3±0.3
Lucky Strike RNFSP	25.1±0.4	1.56±0.03	17.2±0.4
Raleigh KNFSP	25.1±0.4	1.46±0.03	16.9±0.4
Herbert Tareyton KNFSP	25.3±1.0	1.57±0.03	17.6±0.4
Old Gold Straights KNFSP	26.0±0.7	1.77±0.03	17.9±0.6
Philip Morris Commander KNFSP	26.1±0.4	1.65±0.03	16.1±0.5

*Retested brand

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PM3000761868

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Sorted "Nicotine" Results

Brand	"Nicotine" mg/cig	"Tar" mg/cig	CO mg/cig
Carlton Ultra KFHP	< 0.05	< 0.5	< 0.5
Now KFHP	< 0.05	< 0.5	< 0.5
Now 100s 100FHP	< 0.05	< 0.5	< 0.5
Carlton 100's 100FMHP	0.09±0.00	< 0.5	0.9±0.1
Carlton KFMSP	0.09±0.01	< 0.5	1.3±0.1
Carlton 100's 100FHP	0.09±0.00	< 0.5	0.9±0.1
Carlton 83 KFHP	0.12±0.01	0.7±0.1	1.6±0.1
Now KFMSP	0.12±0.01	0.8±0.1	2.2±0.1
Now KFSP	0.13±0.01	0.7±0.1	2.0±0.1
Carlton KFSP	0.13±0.01	0.9±0.1	2.0±0.1
Kool Ultra KFMSP	0.18±0.01	1.8±0.1	2.1±0.1
Now 100s 100FSP	0.20±0.01	1.6±0.1	2.8±0.1
Now 100s 100FMSP	0.25±0.01	2.4±0.1	4.0±0.2
Carlton 100's 100FSP	0.29±0.01	2.7±0.1	3.8±0.2
Triumph KFSP	0.30±0.01	2.8±0.2	3.6±0.2
Kent III KFSP	0.34±0.01	3.4±0.2	4.6±0.2
Triumph KFMSP	0.35±0.02	3.4±0.2	4.4±0.3
Cambridge Ultra Low Tar 100s 100FSP	0.38±0.01	4.0±0.2	6.0±0.2
Salem Ultra Lights 100's 100FMSP	0.41±0.01	4.5±0.2	7.0±0.3
Carlton 100's 100FMSP	0.42±0.01	4.4±0.2	6.2±0.2
Vantage Ultra Lights KFSP	0.43±0.01	5.0±0.1	7.4±0.2
Winston Ultra Lights 100's 100FSP	0.43±0.01	4.8±0.1	8.3±0.2
Kool Ultra 100's 100FMSP	0.43±0.02	4.8±0.2	5.0±0.2
Salem Ultra Lights KFMSP	0.44±0.01	4.9±0.1	7.6±0.2
Tareyton Lights KFSP	0.44±0.02	5.1±0.3	5.7±0.4
Kent III 100s 100FSP	0.44±0.01	4.7±0.1	7.1±0.2
Vantage Ultra Lights 100s 100FSP	0.44±0.01	4.9±0.1	8.0±0.2
Virginia Slims Ultra Lights 100 100FMHP	0.45±0.02	4.8±0.2	5.2±0.2
Merit Ultra Lights KFMSP	0.46±0.01	4.8±0.1	6.2±0.2
True KFMSP	0.46±0.01	4.6±0.2	6.1±0.2
Doral Ultra Lights 100's 100FSP	0.46±0.01	4.9±0.2	7.8±0.3
True KFSP	0.46±0.02	4.7±0.3	6.1±0.3
Merit Ultra Lights KFSP	0.46±0.02	4.8±0.2	6.3±0.1
Benson & Hedges Deluxe Ultra Lights 100's 100FMHP	0.47±0.01	5.1±0.2	6.8±0.2
Virginia Slims Ultra Lights 100 100FHP	0.47±0.01	4.9±0.1	5.4±0.2
Kent III 100s 100FHP	0.47±0.01	4.9±0.2	7.2±0.2
Winston Ultra Lights KFSP	0.47±0.01	5.4±0.1	8.5±0.2
Benson & Hedges Deluxe Ultra Lights 100's 100FHP	0.48±0.01	5.2±0.2	6.6±0.2
Merit Ultra Lights KFHP	0.49±0.01	5.1±0.1	6.4±0.2
Triumph 100s 100FSP	0.50±0.01	5.4±0.2	7.6±0.3
Merit Ultra Lights 100's 100FMSP	0.51±0.01	5.2±0.2	7.2±0.3
Triumph 100s 100FMSP	0.52±0.02	5.5±0.2	7.8±0.2
Merit Ultra Lights 100's 100FSP	0.53±0.01	5.3±0.2	7.1±0.2
Savvy Ultra Lights 100's 100FSP	0.54±0.01	5.2±0.2	5.2±0.1
Pyramid Ultra Lights 100's 100FSP	0.57±0.01	5.6±0.1	5.1±0.1
Merit Ultra Lights 100's 100FHP	0.58±0.02	5.8±0.1	7.1±0.2
Eve Ultra Lights 120's 120FHP	0.58±0.02	5.4±0.2	4.0±0.1

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PM3000761869

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Sorted "Nicotine" Results

Brand	"Nicotine" mg/cig	"Tar" mg/cig	CO mg/cig
Eve Ultra Lights 120's 120FMHP	0.58±0.02	5.3±0.2	3.9±0.2
Carlton 120's 120FMSP	0.59±0.02	5.9±0.2	5.1±0.1
True 100's 100FSP	0.60±0.02	6.2±0.3	7.0±0.3
Vantage Menthol 100s 100FMSP	0.60±0.01	8.2±0.2	12.6±0.3
Carlton 120's 120FSP	0.61±0.02	6.1±0.2	5.5±0.2
True 100's 100FMSP	0.61±0.02	6.5±0.3	7.2±0.4
Merit KFHP	0.62±0.02	7.7±0.3	10.1±0.3
Camel Lights KFHP	0.62±0.01	9.4±0.2	11.6±0.2
Belair 100's 100FMSP	0.62±0.01	8.1±0.2	8.7±0.2
Winston Lights KFHP	0.62±0.01	9.6±0.2	11.5±0.2
Merit KFSP	0.63±0.01	7.8±0.1	10.2±0.3
Vantage 100s 100FSP	0.64±0.01	8.5±0.1	11.4±0.2
Merit KFMSP	0.64±0.01	7.9±0.2	9.8±0.2
Magna Lites KFSP	0.65±0.02	9.4±0.2	13.4±0.3
Winston Lights KFSP	0.66±0.02	9.5±0.2	11.4±0.2
Camel Lights KFSP	0.66±0.01	9.4±0.1	11.9±0.2
Kool Lights KFMSP	0.67±0.02	8.1±0.2	9.0±0.2
Tareyton Long Lights 100FSP	0.68±0.02	7.9±0.3	8.8±0.4
Salem Lights 100's 100FMSP	0.68±0.02	8.2±0.2	10.0±0.2
Lucky Strike Lights KFSP	0.68±0.01	8.4±0.2	10.1±0.3
Vantage KFMSP	0.68±0.01	9.8±0.2	12.2±0.2
Century 25's Lights (25) KFSP	0.68±0.01	9.4±0.2	11.0±0.3
Kent Golden Lights KFSP	0.69±0.02	7.6±0.2	8.5±0.3
Salem Lights KFMSP	0.70±0.01	9.4±0.2	12.0±0.3
Kent Golden Lights KFHP	0.71±0.02	8.1±0.2	9.2±0.3
Virginia Slims Lights 100FMHP	0.71±0.01	8.6±0.2	9.6±0.2
Vantage Excell 100's 100FSP	0.72±0.02	8.8±0.2	9.2±0.3
Virginia Slims Lights 100FHP	0.72±0.02	8.7±0.2	9.6±0.3
More Lights 100s 100FMHP	0.72±0.01	9.5±0.2	10.8±0.2
Winston Lights 100's 100FHP	0.72±0.02	9.9±0.2	12.3±0.4
Newport Lights KFMHP	0.72±0.01	8.3±0.1	9.2±0.2
Doral Lights KFSP	0.72±0.02	9.8±0.2	11.2±0.3
Newport Lights KFMSP	0.72±0.02	8.1±0.3	9.0±0.3
Vantage KFSP	0.73±0.01	10.3±0.1	13.4±0.2
Kent Golden Lights KFMSP	0.73±0.02	8.1±0.3	8.9±0.4
Doral Menthol Lights KFMSP	0.73±0.02	10.0±0.3	11.4±0.4
Alpine Lights KFMSP	0.74±0.02	9.3±0.2	10.6±0.2
Players Lights 25's KFMSP	0.74±0.02	10.1±0.2	11.2±0.2
Falcon Lights KFSP	0.74±0.02	10.9±0.3	11.0±0.3
Parliament Lights KFHP	0.74±0.01	9.2±0.2	9.9±0.3
More White Lights 120s 120FSP	0.74±0.01	9.8±0.1	13.5±0.3
Kool Lights 100's 100FMSP	0.74±0.02	8.7±0.3	10.0±0.4
Salem Slim Lights 100's 100FMHP	0.75±0.01	9.5±0.2	10.0±0.2
Falcon Lights 100's 100FMSP	0.75±0.02	9.0±0.3	10.8±0.3
Malibu Lights 100's 100FSP	0.75±0.02	8.9±0.2	10.5±0.2
Capri 100FMHP	0.75±0.02	9.5±0.2	6.3±0.2
Newport Stripes Slim Lights 100FMHP	0.76±0.01	9.6±0.2	11.3±0.3

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PM3000761870

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Sorted "Nicotine" Results

Brand	"Nicotine" mg/cig	"Tar" mg/cig	CO mg/cig
Marlboro Lights KFMHP	0.76±0.02	9.8±0.2	11.1±0.3
Parliament Lights KFSP	0.76±0.01	9.4±0.2	10.7±0.3
Malibu Lights KFSP	0.76±0.01	9.6±0.2	10.2±0.3
Lucky Strike Lights 100's 100FSP	0.76±0.02	8.9±0.2	9.8±0.3
Players Lights 25's KFSP	0.77±0.01	10.4±0.1	11.3±0.2
Old Gold Lights KFSP	0.77±0.02	8.7±0.3	9.9±0.4
Ritz 100 100FHP	0.77±0.02	9.8±0.3	10.7±0.3
Ritz 100 100FMHP	0.78±0.01	10.8±0.2	11.0±0.3
Merit 100's 100FMSP	0.78±0.02	9.7±0.2	11.4±0.3
Alpine Lights 100's 100FMSP	0.78±0.01	9.5±0.1	11.2±0.2
Camel Lights 100's 100FSP	0.78±0.01	11.0±0.2	13.7±0.3
Winston Lights 100's 100FSP	0.79±0.01	11.1±0.2	12.7±0.2
Dunhill International Superior Mild 100FHP	0.79±0.02	8.5±0.3	9.8±0.3
Falcon Lights 100's 100FSP	0.79±0.02	11.2±0.3	14.2±0.4
Falcon Lights KFMSP	0.79±0.02	10.4±0.3	12.0±0.4
Chesterfield Lights KFSP	0.79±0.01	10.0±0.2	11.6±0.2
Pall Mall Red Lights 100's 100FSP	0.79±0.01	9.3±0.2	9.6±0.2
Capri 100FHP	0.80±0.02	9.6±0.2	6.5±0.2
Merit 100's 100FSP	0.80±0.02	9.8±0.2	12.1±0.3
Benson & Hedges Lights 100's 100FMHP	0.80±0.02	10.2±0.2	11.5±0.2
Newport Lights 100's 100FMSP	0.80±0.03	8.7±0.4	9.2±0.4
Kent Golden Lights 100s 100FSP	0.80±0.02	8.7±0.3	9.2±0.5
Newport Lights 100's 100FMHP	0.81±0.02	8.7±0.2	9.2±0.3
Marlboro Lights 100's 100FMHP	0.81±0.01	10.0±0.2	11.3±0.2
More White Lights 120s 120FMSP	0.81±0.02	10.3±0.2	14.8±0.3
Pall Mall Red Lights KFSP	0.82±0.01	10.2±0.2	10.5±0.2
Kent KFHP	0.82±0.01	11.1±0.2	12.6±0.2
Marlboro Lights 25's KFSP	0.82±0.02	11.0±0.2	11.9±0.2
Century 25's Lights 100's 100FMSP	0.82±0.02	11.1±0.3	12.5±0.4
Belair KFMSP	0.82±0.02	10.5±0.2	9.6±0.2
Kent Golden Lights 100s 100FHP	0.83±0.03	8.9±0.3	9.7±0.4
Doral Lights 100's 100FSP	0.83±0.02	10.3±0.3	10.5±0.4
Salem Lights 100's 100FMHP	0.83±0.01	10.8±0.2	11.3±0.3
More Lights 100s 100FHP	0.84±0.02	10.4±0.3	11.1±0.3
Benson & Hedges Lights 100's 100FSP	0.84±0.03	10.6±0.3	12.8±0.4
L & M Long Lights 100FSP	0.85±0.02	8.2±0.3	6.8±0.2
Benson & Hedges Lights 100's 100FHP	0.85±0.02	10.8±0.2	11.6±0.4
Marlboro Lights KFHP	0.85±0.01	11.2±0.2	12.4±0.3
Pall Mall Lights 100's 100FSP	0.85±0.02	10.3±0.3	11.8±0.3
Marlboro Lights 100's 100FSP	0.86±0.02	10.7±0.2	12.0±0.3
Players KFMHP	0.86±0.01	11.8±0.2	12.6±0.2
Marlboro Lights 100's 100FHP	0.86±0.02	10.8±0.2	12.0±0.2
Marlboro Lights KFSP	0.86±0.02	11.3±0.3	11.8±0.3
Benson & Hedges Lights 100's 100FMSP	0.86±0.02	10.6±0.2	11.7±0.3
Chesterfield Lights 100s 100FSP	0.86±0.01	10.3±0.2	11.3±0.3
Players 25's Lights 100's 100FMSP	0.87±0.01	11.5±0.2	13.5±0.3
Savvy 100's Lights 100FSP	0.87±0.02	10.1±0.2	10.7±0.2

Rev. 6/90

PM3000761871

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Sorted "Nicotine" Results

Brand	"Nicotine" mg/cig	"Tar" mg/cig	CO mg/cig
Kool Milds KFMHP	0.87±0.01	11.5±0.2	11.4±0.2
Cambridge Lights KFMSP	0.87±0.02	12.0±0.3	13.0±0.4
Viceroy Lights KFSP	0.87±0.02	11.3±0.2	12.7±0.3
Kent KFSP	0.87±0.02	11.8±0.3	13.6±0.4
Players KFHP	0.87±0.02	12.0±0.3	12.6±0.3
Players 25's Lights 100's 100FSP	0.88±0.02	11.8±0.2	13.7±0.3
Kent Golden Lights 100s 100FMSP	0.88±0.03	9.7±0.4	10.5±0.5
Doral Menthol Lights 100's 100FMSP	0.88±0.02	10.9±0.2	11.2±0.3
Cambridge Lights 100's 100FMSP	0.88±0.01	11.5±0.2	13.6±0.3
Cambridge Lights 100's 100FSP	0.88±0.01	11.7±0.2	13.6±0.3
Savvy 100's Lights 100FMSP	0.88±0.02	10.3±0.2	10.9±0.2
Raleigh Lights KFSP	0.89±0.02	11.4±0.3	12.5±0.3
Magna KFHP	0.89±0.02	13.9±0.2	14.9±0.3
Century 25's Lights 100's 100FSP	0.89±0.02	11.5±0.2	13.0±0.3
Cambridge Lights KFSP	0.89±0.02	12.4±0.2	12.7±0.2
*Benson & Hedges Multifilter KFSP	0.90±0.02	11.3±0.2	11.1±0.3
Richland Lights (25) KFSP	0.90±0.02	11.6±0.3	12.6±0.3
Newport Stripes 100FMHP	0.90±0.02	12.1±0.2	16.4±0.4
More Lights 120s 120FSP	0.91±0.02	12.1±0.2	18.8±0.4
Newport Stripes 100FHP	0.91±0.02	11.7±0.2	15.5±0.4
American Lights KFSP	0.91±0.01	12.0±0.2	12.7±0.2
Richland 20's Lights 100's 100FSP	0.91±0.02	12.3±0.3	14.0±0.3
Richland 20's Lights KFSP	0.91±0.01	11.9±0.2	12.5±0.3
Lucky Strike KFHP	0.92±0.02	12.0±0.2	12.8±0.2
Viceroy Lights 100's 100FSP	0.92±0.02	12.0±0.3	13.8±0.3
Old Gold Lights 100s 100FSP	0.92±0.02	12.0±0.2	16.4±0.3
Lucky Strike KFSP	0.92±0.02	12.3±0.3	12.8±0.4
Raleigh Lights 100's 100FSP	0.92±0.01	12.3±0.2	14.6±0.3
Magna KFSP	0.93±0.01	13.5±0.2	13.9±0.3
Malibu Menthol 100's 100FMSP	0.93±0.02	11.5±0.3	12.1±0.4
St. Moritz Menthol 100FMSP	0.93±0.02	14.2±0.3	16.0±0.4
Satin 100FSP	0.94±0.01	11.1±0.3	13.3±0.4
Kool Milds KFMSP	0.94±0.03	12.2±0.2	12.6±0.2
Satin 100FMSP	0.94±0.02	11.3±0.2	13.6±0.3
Kool Milds 100's 100FMSP	0.95±0.02	12.1±0.3	13.0±0.3
Richland Lights (25) 100's 100FSP	0.95±0.02	12.6±0.2	14.4±0.3
Raleigh KFSP	0.96±0.03	15.3±0.4	14.4±0.3
Capri 120's 120FMHP	0.96±0.02	12.1±0.2	7.5±0.2
Camel Filters KFSP	0.96±0.02	14.8±0.2	14.3±0.3
Lucky Strike Filters 100's 100FSP	0.96±0.02	12.4±0.3	13.0±0.3
American Lights 100's 100FSP	0.97±0.02	12.3±0.3	13.2±0.4
Century 25's (25) KFSP	0.97±0.02	15.1±0.3	17.4±0.4
Raleigh 100's 100FSP	0.97±0.02	15.5±0.4	15.7±0.3
Dunhill Menthol Mild 100FMHP	0.97±0.03	10.8±0.4	13.0±0.4
Harley Davidson KFSP	0.99±0.01	13.9±0.1	16.0±0.2

*Retested brand

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PM3000761872

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Sorted "Nicotine" Results

Brand	"Nicotine" mg/cig	"Tar" mg/cig	CO mg/cig
Silva Thins Menthol 100FMHP	0.99±0.02	12.3±0.2	11.9±0.3
More Lights 120s 120FMSP	0.99±0.02	12.6±0.3	19.5±0.5
Tareyton KFSP	0.99±0.02	14.2±0.3	15.6±0.3
L & M 30's Lights 100's 100FSP	1.01±0.02	11.9±0.2	9.9±0.3
Lark Lights KFSP	1.01±0.03	12.6±0.3	11.4±0.3
Silva Thins Filters 100FHP	1.01±0.02	12.4±0.2	11.8±0.2
Tareyton 100's 100FSP	1.02±0.02	13.9±0.2	16.7±0.3
Parliament Lights 100's 100FSP	1.02±0.02	12.2±0.2	12.8±0.3
Doral Full Flavor KFSP	1.02±0.03	16.2±0.3	16.5±0.4
Eve Slim Lights 100's 100FHP	1.03±0.02	12.7±0.2	10.9±0.2
Players 100's 100FMHP	1.03±0.02	13.9±0.2	12.5±0.2
Eve Slim Lights 100's 100FMHP	1.03±0.02	12.9±0.3	10.7±0.3
Kent 100s 100FSP	1.03±0.02	13.9±0.3	15.1±0.3
Players 100's 100FHP	1.04±0.02	14.2±0.2	12.9±0.2
Camel Filters KFHP	1.04±0.02	16.9±0.3	16.1±0.3
Camel Filters 100's 100FSP	1.04±0.02	17.3±0.2	18.9±0.3
Kent 100s 100FMSP	1.04±0.02	14.1±0.3	14.9±0.3
Richland 20's KFMSP	1.05±0.02	16.1±0.3	15.5±0.4
L & M KFSP	1.05±0.02	13.6±0.3	13.0±0.3
Winston KFHP	1.05±0.02	16.8±0.3	15.8±0.3
Winston 100's 100FSP	1.05±0.01	17.1±0.2	19.1±0.3
Pyramid Lights KFSP	1.06±0.02	13.5±0.2	12.9±0.3
L & M KFHP	1.07±0.02	13.6±0.2	12.9±0.2
Lark Light 100's 100FSP	1.07±0.02	13.0±0.3	12.5±0.4
Richland (25) KFMSP	1.08±0.02	16.5±0.4	15.8±0.4
Lark KFSP	1.08±0.02	14.0±0.2	12.3±0.2
Prince Lights KFSP	1.08±0.02	12.3±0.3	12.4±0.3
Doral Full Flavor KFMSP	1.09±0.02	16.3±0.2	16.1±0.3
St. Moritz Filter 100FSP	1.09±0.02	14.9±0.2	15.5±0.2
Kool KFMHP	1.09±0.02	15.9±0.4	15.6±0.4
L & M Super 100 100FSP	1.09±0.02	13.7±0.2	14.6±0.3
Virginia Slims Lights 120's 120FMHP	1.09±0.02	13.7±0.3	13.3±0.3
Winston KFSP	1.11±0.02	16.6±0.3	16.2±0.3
Eve Lights 120's 120FHP	1.11±0.02	12.8±0.3	11.4±0.3
Rothmans Special Mild KFHP	1.11±0.02	14.1±0.3	15.9±0.2
Doral Full Flavor 100's 100FSP	1.11±0.03	16.2±0.3	18.1±0.4
Viceroy KFSP	1.11±0.03	16.8±0.3	15.7±0.4
Malibu 100's 100FSP	1.12±0.03	14.3±0.5	13.7±0.5
Capri 120's 120FHP	1.12±0.02	14.0±0.2	9.8±0.3
Virginia Slims 100FSP	1.12±0.02	15.0±0.3	13.2±0.2
Pall Mall Red Filters KFSP	1.13±0.03	15.2±0.4	13.6±0.3
Doral Full Flavor 100's 100FMSP	1.13±0.02	15.8±0.2	17.3±0.2
*Alpine 100s 100FMSP	1.13±0.02	15.4±0.3	14.6±0.3
Virginia Slims Lights 120's 120FHP	1.13±0.02	14.3±0.3	13.9±0.4
Saratoga 120's 120FMHP	1.13±0.02	14.8±0.2	14.3±0.3

*Retested brand

Rev. 6/90

PM3000761873

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Sorted "Nicotine" Results

Brand	"Nicotine" mg/cig	"Tar" mg/cig	CO mg/cig
Eve Lights 120's 120FMHP	1.14±0.03	13.0±0.2	11.5±0.3
Century 25's 100's 100FSP	1.14±0.02	17.2±0.2	20.4±0.3
*Alpine KFMSP	1.14±0.02	17.0±0.3	16.0±0.3
Richland 20's Menthol 100's 100FMSP	1.14±0.02	16.3±0.3	16.4±0.3
Pyramid Lights 100's 100FSP	1.14±0.02	13.5±0.2	14.5±0.2
Cambridge Full Flavor KFSP	1.14±0.02	17.5±0.3	15.9±0.2
American Filter King KFSP	1.15±0.01	16.4±0.2	14.5±0.3
Newport KFMHP	1.15±0.02	15.9±0.3	16.9±0.3
Virginia Slims 100FMSP	1.15±0.02	15.3±0.2	13.3±0.3
Salem 100's 100FMSP	1.15±0.02	16.4±0.3	16.0±0.4
Richland (25) KFSP	1.16±0.02	16.8±0.3	16.1±0.4
Marlboro KFMSP	1.16±0.02	16.5±0.3	15.0±0.3
Benson & Hedges 100's 100FMSP	1.16±0.02	15.8±0.2	15.9±0.3
Salem KFMSP	1.16±0.02	16.8±0.2	16.7±0.2
Saratoga 120's 120FHP	1.17±0.02	15.1±0.3	15.0±0.4
Marlboro KFHP	1.17±0.02	16.8±0.3	14.5±0.4
Viceroy Super Long 100's 100FSP	1.17±0.02	16.1±0.3	15.3±0.3
Lark 100FSP	1.17±0.02	14.4±0.2	13.6±0.2
Pall Mall Red Filters 100's 100FSP	1.17±0.02	15.6±0.3	14.9±0.3
Richland 20's KFSP	1.18±0.02	17.2±0.4	16.2±0.3
Marlboro KFSP	1.18±0.02	16.8±0.3	15.1±0.3
Malibu Menthol KFMSP	1.18±0.02	16.1±0.3	14.0±0.3
Kool KFMSP	1.19±0.03	17.0±0.3	16.0±0.4
Craven "A" KFHP	1.19±0.02	15.6±0.2	16.3±0.3
Cambridge Full Flavor 100's 100FSP	1.19±0.02	17.3±0.3	16.6±0.4
Malibu Filters KFSP	1.20±0.02	16.6±0.3	14.9±0.3
Marlboro 25's KFSP	1.21±0.02	17.1±0.3	15.4±0.3
American Filter 100's 100FSP	1.21±0.02	16.4±0.2	14.5±0.3
More 120s 120FSP	1.21±0.02	17.0±0.2	21.8±0.3
Benson & Hedges 100's 100FMHP	1.21±0.02	16.5±0.3	15.6±0.3
Marlboro 100's 100FSP	1.21±0.02	16.4±0.3	15.7±0.4
Benson & Hedges 100's 100FHP	1.22±0.02	16.4±0.2	15.3±0.2
Marlboro 100's Red 100FSP	1.22±0.01	16.4±0.2	15.9±0.2
Newport KFMSP	1.23±0.02	16.9±0.2	17.7±0.3
Marlboro 100's 100FHP	1.23±0.02	16.6±0.2	16.2±0.3
Benson & Hedges 100's 100FSP	1.24±0.02	16.9±0.3	16.8±0.3
Newport 25's KFMSP	1.24±0.02	17.1±0.2	18.1±0.2
Philip Morris International 100FHP	1.25±0.02	16.7±0.2	16.1±0.3
Old Gold Filters KFSP	1.25±0.02	17.2±0.3	18.2±0.5
Benson & Hedges KFHP	1.25±0.03	15.4±0.4	12.5±0.4
Chesterfield RNFSP	1.26±0.03	19.7±0.4	12.6±0.3
Dunhill Menthol 100FMHP	1.26±0.02	14.8±0.2	17.1±0.2
Marlboro 100's Red 100FHP	1.27±0.02	16.8±0.3	17.3±0.3
Kool Super Longs 100's 100FMSP	1.27±0.03	17.2±0.3	16.9±0.3
Philip Morris International 100FMHP	1.28±0.02	16.8±0.2	15.6±0.2

*Retested brand

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PM3000761874

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Sorted "Nicotine" Results

Brand	"Nicotine" mg/cig	"Tar" mg/cig	CO mg/cig
Richland 20's 100's 100FSP	1.30±0.02	17.8±0.3	17.0±0.3
Prince KFSP	1.31±0.02	16.5±0.2	18.0±0.2
More 120s 120FMSP	1.32±0.02	17.2±0.3	21.9±0.5
Max 120s 120FMSP	1.32±0.03	16.9±0.4	17.6±0.5
Max 120s 120FSP	1.32±0.02	17.2±0.2	18.6±0.4
Pall Mall 100's 100FSP	1.34±0.02	17.5±0.2	17.2±0.2
Richland 100's (25) 100FSP	1.35±0.02	18.2±0.2	17.5±0.3
Rothmans KFHP	1.36±0.02	18.0±0.3	18.9±0.3
Newport 100's 100FMSP	1.37±0.02	18.0±0.3	18.7±0.4
Kool RNFMSP	1.39±0.02	21.5±0.8	14.6±0.3
Old Gold Filter 100's 100FSP	1.39±0.02	18.4±0.3	19.2±0.3
Spring 100's 100FMSP	1.40±0.03	18.2±0.3	18.4±0.4
Camel RNFSP	1.42±0.03	22.5±0.4	14.0±0.3
Newport 100's 100FMHP	1.42±0.03	18.7±0.3	19.4±0.3
*Philip Morris RNFSP	1.43±0.03	23.5±0.5	13.6±0.5
Newport 25's 100's 100FMSP	1.45±0.02	19.2±0.2	19.4±0.3
Raleigh KNFSP	1.46±0.03	25.1±0.4	16.9±0.4
Pyramid KNFSP	1.52±0.02	22.7±0.4	14.7±0.4
Craven "A" Filter Standard Size RFHP	1.54±0.03	18.7±0.4	14.1±0.3
Tall 120s 120FSP	1.56±0.03	18.9±0.3	19.2±0.3
Lucky Strike RNFSP	1.56±0.03	25.1±0.4	17.2±0.4
Dunhill International 100FHP	1.56±0.03	16.9±0.2	17.3±0.3
Tall 120s 120FMSP	1.57±0.03	18.4±0.3	17.5±0.3
Herbert Tarcyton KNFSP	1.57±0.03	25.3±1.0	17.6±0.4
Chesterfield KNFSP	1.58±0.04	23.5±0.5	14.8±0.4
Pall Mall KNFSP	1.65±0.04	24.7±0.6	16.3±0.5
Philip Morris Commander KNFSP	1.65±0.03	26.1±0.4	16.1±0.5
Pall Mall 25's KNFSP	1.66±0.03	25.0±0.3	16.3±0.3
Players RNFHP	1.74±0.03	24.7±0.4	15.4±0.4
Old Gold Straights KNFSP	1.77±0.03	26.0±0.7	17.9±0.6
English Ovals KNFHP	1.83±0.04	23.5±0.4	15.3±0.4

*Retested brand

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PM3000761875

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Sorted Carbon Monoxide Results

Brand	CO mg/cig	"Tar" mg/cig	"Nicotine" mg/cig
Carlton Ultra KFHP	< 0.5	< 0.5	< 0.05
Now KFHP	< 0.5	< 0.5	< 0.05
Now 100s 100FHP	< 0.5	< 0.5	< 0.05
Carlton 100's 100FMHP	0.9±0.1	< 0.5	0.09±0.00
Carlton 100's 100FHP	0.9±0.1	< 0.5	0.09±0.00
Carlton KFMSP	1.3±0.1	< 0.5	0.09±0.01
Carlton 83 KFHP	1.6±0.1	0.7±0.1	0.12±0.01
Now KFSP	2.0±0.1	0.7±0.1	0.13±0.01
Carlton KFSP	2.0±0.1	0.9±0.1	0.13±0.01
Kool Ultra KFMSP	2.1±0.1	1.8±0.1	0.18±0.01
Now KFMSP	2.2±0.1	0.8±0.1	0.12±0.01
Now 100s 100FSP	2.8±0.1	1.6±0.1	0.20±0.01
Triumph KFSP	3.6±0.2	2.8±0.2	0.30±0.01
Carlton 100's 100FSP	3.8±0.2	2.7±0.1	0.29±0.01
Eve Ultra Lights 120's 120FMHP	3.9±0.2	5.3±0.2	0.58±0.02
Eve Ultra Lights 120's 120FHP	4.0±0.1	5.4±0.2	0.58±0.02
Now 100s 100FMSP	4.0±0.2	2.4±0.1	0.25±0.01
Triumph KFMSP	4.4±0.3	3.4±0.2	0.35±0.02
Kent III KFSP	4.6±0.2	3.4±0.2	0.34±0.01
Kool Ultra 100's 100FMSP	5.0±0.2	4.8±0.2	0.43±0.02
Carlton 120's 120FMSP	5.1±0.1	5.9±0.2	0.59±0.02
Pyramid Ultra Lights 100's 100FSP	5.1±0.1	5.6±0.1	0.57±0.01
Savvy Ultra Lights 100's 100FSP	5.2±0.1	5.2±0.2	0.54±0.01
Virginia Slims Ultra Lights 100 100FMHP	5.2±0.2	4.8±0.2	0.45±0.02
Virginia Slims Ultra Lights 100 100FHP	5.4±0.2	4.9±0.1	0.47±0.01
Carlton 120's 120FSP	5.5±0.2	6.1±0.2	0.61±0.02
Tarcyton Lights KFSP	5.7±0.4	5.1±0.3	0.44±0.02
Cambridge Ultra Low Tar 100s 100FSP	6.0±0.2	4.0±0.2	0.38±0.01
True KFMSP	6.1±0.2	4.6±0.2	0.46±0.01
True KFSP	6.1±0.3	4.7±0.3	0.46±0.02
Merit Ultra Lights KFMSP	6.2±0.2	4.8±0.1	0.46±0.01
Carlton 100's 100FMSP	6.2±0.2	4.4±0.2	0.42±0.01
Capri 100FMHP	6.3±0.2	9.5±0.2	0.75±0.02
Merit Ultra Lights KFSP	6.3±0.1	4.8±0.2	0.46±0.02
Merit Ultra Lights KFHP	6.4±0.2	5.1±0.1	0.49±0.01
Capri 100FHP	6.5±0.2	9.6±0.2	0.80±0.02
Benson & Hedges Deluxe Ultra Lights 100's 100FHP	6.6±0.2	5.2±0.2	0.48±0.01
L & M Long Lights 100FSP	6.8±0.2	8.2±0.3	0.85±0.02
Benson & Hedges Deluxe Ultra Lights 100's 100FMHP	6.8±0.2	5.1±0.2	0.47±0.01
True 100's 100FSP	7.0±0.3	6.2±0.3	0.60±0.02
Salem Ultra Lights 100's 100FMSP	7.0±0.3	4.5±0.2	0.41±0.01
Merit Ultra Lights 100's 100FHP	7.1±0.2	5.8±0.1	0.58±0.02
Kent III 100s 100FSP	7.1±0.2	4.7±0.1	0.44±0.01
Merit Ultra Lights 100's 100FSP	7.1±0.2	5.3±0.2	0.53±0.01
Merit Ultra Lights 100's 100FMSP	7.2±0.3	5.2±0.2	0.51±0.01
True 100's 100FMSP	7.2±0.4	6.5±0.3	0.61±0.02
Kent III 100s 100FHP	7.2±0.2	4.9±0.2	0.47±0.01

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PM3000761876

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Sorted Carbon Monoxide Results

Brand	CO mg/cig	"Tar" mg/cig	"Nicotine" mg/cig
Vantage Ultra Lights KFSP	7.4±0.2	5.0±0.1	0.43±0.01
Capri 120's 120FMHP	7.5±0.2	12.1±0.2	0.96±0.02
Salem Ultra Lights KFMSP	7.6±0.2	4.9±0.1	0.44±0.01
Triumph 100s 100FSP	7.6±0.3	5.4±0.2	0.50±0.01
Triumph 100s 100FMSP	7.8±0.2	5.5±0.2	0.52±0.02
Doral Ultra Lights 100's 100FSP	7.8±0.3	4.9±0.2	0.46±0.01
Vantage Ultra Lights 100s 100FSP	8.0±0.2	4.9±0.1	0.44±0.01
Winston Ultra Lights 100's 100FSP	8.3±0.2	4.8±0.1	0.43±0.01
Winston Ultra Lights KFSP	8.5±0.2	5.4±0.1	0.47±0.01
Kent Golden Lights KFSP	8.5±0.3	7.6±0.2	0.69±0.02
Belair 100's 100FMSP	8.7±0.2	8.1±0.2	0.62±0.01
Tareyton Long Lights 100FSP	8.8±0.4	7.9±0.3	0.68±0.02
Kent Golden Lights KFMSP	8.9±0.4	8.1±0.3	0.73±0.02
Newport Lights KFMSP	9.0±0.3	8.1±0.3	0.72±0.02
Kool Lights KFMSP	9.0±0.2	8.1±0.2	0.67±0.02
Kent Golden Lights KFHP	9.2±0.3	8.1±0.2	0.71±0.02
Kent Golden Lights 100s 100FSP	9.2±0.5	8.7±0.3	0.80±0.02
Newport Lights 100's 100FMSP	9.2±0.4	8.7±0.4	0.80±0.03
Newport Lights 100's 100FMHP	9.2±0.3	8.7±0.2	0.81±0.02
Newport Lights KFMHP	9.2±0.2	8.3±0.1	0.72±0.01
Vantage Excell 100's 100FSP	9.2±0.3	8.8±0.2	0.72±0.02
Pall Mall Red Lights 100's 100FSP	9.6±0.2	9.3±0.2	0.79±0.01
Virginia Slims Lights 100FMHP	9.6±0.2	8.6±0.2	0.71±0.01
Virginia Slims Lights 100FHP	9.6±0.3	8.7±0.2	0.72±0.02
Belair KFMSP	9.6±0.2	10.5±0.2	0.82±0.02
Kent Golden Lights 100s 100FHP	9.7±0.4	8.9±0.3	0.83±0.03
Capri 120's 120FHP	9.8±0.3	14.0±0.2	1.12±0.02
Dunhill International Superior Mild 100FHP	9.8±0.3	8.5±0.3	0.79±0.02
Lucky Strike Lights 100's 100FSP	9.8±0.3	8.9±0.2	0.76±0.02
Merit KFMSP	9.8±0.2	7.9±0.2	0.64±0.01
L & M 30's Lights 100's 100FSP	9.9±0.3	11.9±0.2	1.01±0.02
Old Gold Lights KFSP	9.9±0.4	8.7±0.3	0.77±0.02
Parliament Lights KFHP	9.9±0.3	9.2±0.2	0.74±0.01
Salem Lights 100's 100FMSP	10.0±0.2	8.2±0.2	0.68±0.02
Kool Lights 100's 100FMSP	10.0±0.4	8.7±0.3	0.74±0.02
Salem Slim Lights 100's 100FMHP	10.0±0.2	9.5±0.2	0.75±0.01
Merit KFHP	10.1±0.3	7.7±0.3	0.62±0.02
Lucky Strike Lights KFSP	10.1±0.3	8.4±0.2	0.68±0.01
Merit KFSP	10.2±0.3	7.8±0.1	0.63±0.01
Malibu Lights KFSP	10.2±0.3	9.6±0.2	0.76±0.01
Kent Golden Lights 100s 100FMSP	10.5±0.5	9.7±0.4	0.88±0.03
Doral Lights 100's 100FSP	10.5±0.4	10.3±0.3	0.83±0.02
Pall Mall Red Lights KFSP	10.5±0.2	10.2±0.2	0.82±0.01
Malibu Lights 100's 100FSP	10.5±0.2	8.9±0.2	0.75±0.02
Alpine Lights KFMSP	10.6±0.2	9.3±0.2	0.74±0.02
Savvy 100's Lights 100FSP	10.7±0.2	10.1±0.2	0.87±0.02
Parliament Lights KFSP	10.7±0.3	9.4±0.2	0.76±0.01

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PM3000761877

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Sorted Carbon Monoxide Results

Brand	CO mg/cig	"Tar" mg/cig	"Nicotine" mg/cig
Ritz 100 100FHP	10.7±0.3	9.8±0.3	0.77±0.02
Eve Slim Lights 100's 100FMHP	10.7±0.3	12.9±0.3	1.03±0.02
More Lights 100s 100FMHP	10.8±0.2	9.5±0.2	0.72±0.01
Falcon Lights 100's 100FMSP	10.8±0.3	9.0±0.3	0.75±0.02
Savvy 100's Lights 100FMSP	10.9±0.2	10.3±0.2	0.88±0.02
Eve Slim Lights 100's 100FHP	10.9±0.2	12.7±0.2	1.03±0.02
Ritz 100 100FMHP	11.0±0.3	10.8±0.2	0.78±0.01
Century 25's Lights (25) KFSP	11.0±0.3	9.4±0.2	0.68±0.01
Falcon Lights KFSP	11.0±0.3	10.9±0.3	0.74±0.02
*Benson & Hedges Multifilter KFSP	11.1±0.3	11.3±0.2	0.90±0.02
More Lights 100s 100FHP	11.1±0.3	10.4±0.3	0.84±0.02
Marlboro Lights KFMHP	11.1±0.3	9.8±0.2	0.76±0.02
Alpine Lights 100's 100FMSP	11.2±0.2	9.5±0.1	0.78±0.01
Players Lights 25's KFMSP	11.2±0.2	10.1±0.2	0.74±0.02
Doral Menthol Lights 100's 100FMSP	11.2±0.3	10.9±0.2	0.88±0.02
Doral Lights KFSP	11.2±0.3	9.8±0.2	0.72±0.02
Newport Stripes Slim Lights 100FMHP	11.3±0.3	9.6±0.2	0.76±0.01
Marlboro Lights 100's 100FMHP	11.3±0.2	10.0±0.2	0.81±0.01
Players Lights 25's KFSP	11.3±0.2	10.4±0.1	0.77±0.01
Chesterfield Lights 100s 100FSP	11.3±0.3	10.3±0.2	0.86±0.01
Salem Lights 100's 100FMHP	11.3±0.3	10.8±0.2	0.83±0.01
Eve Lights 120's 120FHP	11.4±0.3	12.8±0.3	1.11±0.02
Vantage 100s 100FSP	11.4±0.2	8.5±0.1	0.64±0.01
Doral Menthol Lights KFMSP	11.4±0.4	10.0±0.3	0.73±0.02
Winston Lights KFSP	11.4±0.2	9.5±0.2	0.66±0.02
Kool Milds KFMHP	11.4±0.2	11.5±0.2	0.87±0.01
Merit 100's 100FMSP	11.4±0.3	9.7±0.2	0.78±0.02
Lark Lights KFSP	11.4±0.3	12.6±0.3	1.01±0.03
Benson & Hedges Lights 100's 100FMHP	11.5±0.2	10.2±0.2	0.80±0.02
Eve Lights 120's 120FMHP	11.5±0.3	13.0±0.2	1.14±0.03
Winston Lights KFHP	11.5±0.2	9.6±0.2	0.62±0.01
Benson & Hedges Lights 100's 100FHP	11.6±0.4	10.8±0.2	0.85±0.02
Chesterfield Lights KFSP	11.6±0.2	10.0±0.2	0.79±0.01
Camel Lights KFHP	11.6±0.2	9.4±0.2	0.62±0.01
Benson & Hedges Lights 100's 100FMSP	11.7±0.3	10.6±0.2	0.86±0.02
Pall Mall Lights 100's 100FSP	11.8±0.3	10.3±0.3	0.85±0.02
Marlboro Lights KFSP	11.8±0.3	11.3±0.3	0.86±0.02
Silva Thins Filters 100FHP	11.8±0.2	12.4±0.2	1.01±0.02
Silva Thins Menthol 100FMHP	11.9±0.3	12.3±0.2	0.99±0.02
Marlboro Lights 25's KFSP	11.9±0.2	11.0±0.2	0.82±0.02
Camel Lights KFSP	11.9±0.2	9.4±0.1	0.66±0.01
Salem Lights KFMSP	12.0±0.3	9.4±0.2	0.70±0.01
Marlboro Lights 100's 100FHP	12.0±0.2	10.8±0.2	0.86±0.02
Falcon Lights KFMSP	12.0±0.4	10.4±0.3	0.79±0.02
Marlboro Lights 100's 100FSP	12.0±0.3	10.7±0.2	0.86±0.02

*Retested brand

Rev. 6/90

PM3000761878

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Sorted Carbon Monoxide Results

Brand	CO mg/cig	"Tar" mg/cig	"Nicotine" mg/cig
Merit 100's 100FSP	12.1±0.3	9.8±0.2	0.80±0.02
Malibu Menthol 100's 100FMSP	12.1±0.4	11.5±0.3	0.93±0.02
Vantage KFMSP	12.2±0.2	9.8±0.2	0.68±0.01
Lark KFSP	12.3±0.2	14.0±0.2	1.08±0.02
Winston Lights 100's 100FHP	12.3±0.4	9.9±0.2	0.72±0.02
Prince Lights KFSP	12.4±0.3	12.3±0.3	1.08±0.02
Marlboro Lights KFHP	12.4±0.3	11.2±0.2	0.85±0.01
Players 100's 100FMHP	12.5±0.2	13.9±0.2	1.03±0.02
Richland 20's Lights KFSP	12.5±0.3	11.9±0.2	0.91±0.01
Century 25's Lights 100's 100FMSP	12.5±0.4	11.1±0.3	0.82±0.02
Benson & Hedges KFHP	12.5±0.4	15.4±0.4	1.25±0.03
Raleigh Lights KFSP	12.5±0.3	11.4±0.3	0.89±0.02
Lark Light 100's 100FSP	12.5±0.4	13.0±0.3	1.07±0.02
Players KFHP	12.6±0.3	12.0±0.3	0.87±0.02
Vantage Menthol 100s 100FMSP	12.6±0.3	8.2±0.2	0.60±0.01
Chesterfield RNFSP	12.6±0.3	19.7±0.4	1.26±0.03
Players KFMHP	12.6±0.2	11.8±0.2	0.86±0.01
Richland Lights (25) KFSP	12.6±0.3	11.6±0.3	0.90±0.02
Kent KFHP	12.6±0.2	11.1±0.2	0.82±0.01
Kool Milds KFMSP	12.6±0.2	12.2±0.2	0.94±0.03
American Lights KFSP	12.7±0.2	12.0±0.2	0.91±0.01
Winston Lights 100's 100FSP	12.7±0.2	11.1±0.2	0.79±0.01
Viceroy Lights KFSP	12.7±0.3	11.3±0.2	0.87±0.02
Cambridge Lights KFSP	12.7±0.2	12.4±0.2	0.89±0.02
Benson & Hedges Lights 100's 100FSP	12.8±0.4	10.6±0.3	0.84±0.03
Lucky Strike KFSP	12.8±0.4	12.3±0.3	0.92±0.02
Parliament Lights 100's 100FSP	12.8±0.3	12.2±0.2	1.02±0.02
Lucky Strike KFHP	12.8±0.2	12.0±0.2	0.92±0.02
Pyramid Lights KFSP	12.9±0.3	13.5±0.2	1.06±0.02
Players 100's 100FHP	12.9±0.2	14.2±0.2	1.04±0.02
L & M KFHP	12.9±0.2	13.6±0.2	1.07±0.02
Dunhill Menthol Mild 100FMHP	13.0±0.4	10.8±0.4	0.97±0.03
Kool Milds 100's 100FMSP	13.0±0.3	12.1±0.3	0.95±0.02
L & M KFSP	13.0±0.3	13.6±0.3	1.05±0.02
Cambridge Lights KFMSP	13.0±0.4	12.0±0.3	0.87±0.02
Lucky Strike Filters 100's 100FSP	13.0±0.3	12.4±0.3	0.96±0.02
Century 25's Lights 100's 100FSP	13.0±0.3	11.5±0.2	0.89±0.02
Virginia Slims 100FSP	13.2±0.2	15.0±0.3	1.12±0.02
American Lights 100's 100FSP	13.2±0.4	12.3±0.3	0.97±0.02
Virginia Slims 100FMSP	13.3±0.3	15.3±0.2	1.15±0.02
Satin 100FSP	13.3±0.4	11.1±0.3	0.94±0.01
Virginia Slims Lights 120's 120FMHP	13.3±0.3	13.7±0.3	1.09±0.02
Vantage KFSP	13.4±0.2	10.3±0.1	0.73±0.01
Magna Lites KFSP	13.4±0.3	9.4±0.2	0.65±0.02
Players 25's Lights 100's 100FMSP	13.5±0.3	11.5±0.2	0.87±0.01

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PM3000761879

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Sorted Carbon Monoxide Results

Brand	CO mg/cig	"Tar" mg/cig	"Nicotine" mg/cig
More White Lights 120s 120FSP	13.5±0.3	9.8±0.1	0.74±0.01
*Philip Morris RNFSP	13.6±0.5	23.5±0.5	1.43±0.03
Pall Mall Red Filters KFSP	13.6±0.3	15.2±0.4	1.13±0.03
Satin 100FMSP	13.6±0.3	11.3±0.2	0.94±0.02
Cambridge Lights 100's 100FSP	13.6±0.3	11.7±0.2	0.88±0.01
Kent KFSP	13.6±0.4	11.8±0.3	0.87±0.02
Lark 100FSP	13.6±0.2	14.4±0.2	1.17±0.02
Cambridge Lights 100's 100FMSP	13.6±0.3	11.5±0.2	0.88±0.01
Camel Lights 100's 100FSP	13.7±0.3	11.0±0.2	0.78±0.01
Players 25's Lights 100's 100FSP	13.7±0.3	11.8±0.2	0.88±0.02
Malibu 100's 100FSP	13.7±0.5	14.3±0.5	1.12±0.03
Viceroy Lights 100's 100FSP	13.8±0.3	12.0±0.3	0.92±0.02
Virginia Slims Lights 120's 120FHP	13.9±0.4	14.3±0.3	1.13±0.02
Magna KFSP	13.9±0.3	13.5±0.2	0.93±0.01
Richland 20's Lights 100's 100FSP	14.0±0.3	12.3±0.3	0.91±0.02
Camel RNFSP	14.0±0.3	22.5±0.4	1.42±0.03
Malibu Menthol KFMSP	14.0±0.3	16.1±0.3	1.18±0.02
Craven "A" Filter Standard Size RFHP	14.1±0.3	18.7±0.4	1.54±0.03
Falcon Lights 100's 100FSP	14.2±0.4	11.2±0.3	0.79±0.02
Camel Filters KFSP	14.3±0.3	14.8±0.2	0.96±0.02
Saratoga 120's 120FMHP	14.3±0.3	14.8±0.2	1.13±0.02
Richland Lights (25) 100's 100FSP	14.4±0.3	12.6±0.2	0.95±0.02
Raleigh KFSP	14.4±0.3	15.3±0.4	0.96±0.03
Pyramid Lights 100's 100FSP	14.5±0.2	13.5±0.2	1.14±0.02
American Filter King KFSP	14.5±0.3	16.4±0.2	1.15±0.01
Marlboro KFHP	14.5±0.4	16.8±0.3	1.17±0.02
American Filter 100's 100FSP	14.5±0.3	16.4±0.2	1.21±0.02
L & M Super 100 100FSP	14.6±0.3	13.7±0.2	1.09±0.02
Raleigh Lights 100's 100FSP	14.6±0.3	12.3±0.2	0.92±0.01
*Alpine 100s 100FMSP	14.6±0.3	15.4±0.3	1.13±0.02
Kool RNFMSP	14.6±0.3	21.5±0.8	1.39±0.02
Pyramid KNFSP	14.7±0.4	22.7±0.4	1.52±0.02
More White Lights 120s 120FMSP	14.8±0.3	10.3±0.2	0.81±0.02
Chesterfield KNFSP	14.8±0.4	23.5±0.5	1.58±0.04
Magna KFHP	14.9±0.3	13.9±0.2	0.89±0.02
Malibu Filters KFSP	14.9±0.3	16.6±0.3	1.20±0.02
Kent 100s 100FMSP	14.9±0.3	14.1±0.3	1.04±0.02
Pall Mall Red Filters 100's 100FSP	14.9±0.3	15.6±0.3	1.17±0.02
Marlboro KFMSP	15.0±0.3	16.5±0.3	1.16±0.02
Saratoga 120's 120FHP	15.0±0.4	15.1±0.3	1.17±0.02
Marlboro KFSP	15.1±0.3	16.8±0.3	1.18±0.02
Kent 100s 100FSP	15.1±0.3	13.9±0.3	1.03±0.02
English Ovals KNFHP	15.3±0.4	23.5±0.4	1.83±0.04
Viceroy Super Long 100's 100FSP	15.3±0.3	16.1±0.3	1.17±0.02
Benson & Hedges 100's 100FHP	15.3±0.2	16.4±0.2	1.22±0.02

*Retested brand

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Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Sorted Carbon Monoxide Results

Brand	CO mg/cig	"Tar" mg/cig	"Nicotine" mg/cig
Marlboro 25's KFSP	15.4±0.3	17.1±0.3	1.21±0.02
Players RNFHP	15.4±0.4	24.7±0.4	1.74±0.03
St. Moritz Filter 100FSP	15.5±0.2	14.9±0.2	1.09±0.02
Richland 20's KFMSP	15.5±0.4	16.1±0.3	1.05±0.02
Newport Stripes 100FHP	15.5±0.4	11.7±0.2	0.91±0.02
Benson & Hedges 100's 100FMHP	15.6±0.3	16.5±0.3	1.21±0.02
Philip Morris International 100FMHP	15.6±0.2	16.8±0.2	1.28±0.02
Tareyton KFSP	15.6±0.3	14.2±0.3	0.99±0.02
Kool KFMHP	15.6±0.4	15.9±0.4	1.09±0.02
Raleigh 100's 100FSP	15.7±0.3	15.5±0.4	0.97±0.02
Viceroy KFSP	15.7±0.4	16.8±0.3	1.11±0.03
Marlboro 100's 100FSP	15.7±0.4	16.4±0.3	1.21±0.02
Richland (25) KFMSP	15.8±0.4	16.5±0.4	1.08±0.02
Winston KFHP	15.8±0.3	16.8±0.3	1.05±0.02
Rothmans Special Mild KFHP	15.9±0.2	14.1±0.3	1.11±0.02
Benson & Hedges 100's 100FMSP	15.9±0.3	15.8±0.2	1.16±0.02
Marlboro 100's Red 100FSP	15.9±0.2	16.4±0.2	1.22±0.01
Cambridge Full Flavor KFSP	15.9±0.2	17.5±0.3	1.14±0.02
St. Moritz Menthol 100FMSP	16.0±0.4	14.2±0.3	0.93±0.02
Salem 100's 100FMSP	16.0±0.4	16.4±0.3	1.15±0.02
Kool KFMSP	16.0±0.4	17.0±0.3	1.19±0.03
*Alpine KFMSP	16.0±0.3	17.0±0.3	1.14±0.02
Harley Davidson KFSP	16.0±0.2	13.9±0.1	0.99±0.01
Camel Filters KFHP	16.1±0.3	16.9±0.3	1.04±0.02
Doral Full Flavor KFMSP	16.1±0.3	16.3±0.2	1.09±0.02
Philip Morris Commander KNFSP	16.1±0.5	26.1±0.4	1.65±0.03
Richland (25) KFSP	16.1±0.4	16.8±0.3	1.16±0.02
Philip Morris International 100FHP	16.1±0.3	16.7±0.2	1.25±0.02
Marlboro 100's 100FHP	16.2±0.3	16.6±0.2	1.23±0.02
Winston KFSP	16.2±0.3	16.6±0.3	1.11±0.02
Richland 20's KFSP	16.2±0.3	17.2±0.4	1.18±0.02
Pall Mall KNFSP	16.3±0.5	24.7±0.6	1.65±0.04
Craven "A" KFHP	16.3±0.3	15.6±0.2	1.19±0.02
Pall Mall 25's KNFSP	16.3±0.3	25.0±0.3	1.66±0.03
Richland 20's Menthol 100's 100FMSP	16.4±0.3	16.3±0.3	1.14±0.02
Old Gold Lights 100s 100FSP	16.4±0.3	12.0±0.2	0.92±0.02
Newport Stripes 100FMHP	16.4±0.4	12.1±0.2	0.90±0.02
Doral Full Flavor KFSP	16.5±0.4	16.2±0.3	1.02±0.03
Cambridge Full Flavor 100's 100FSP	16.6±0.4	17.3±0.3	1.19±0.02
Salem KFMSP	16.7±0.2	16.8±0.2	1.16±0.02
Tareyton 100's 100FSP	16.7±0.3	13.9±0.2	1.02±0.02
Benson & Hedges 100's 100FSP	16.8±0.3	16.9±0.3	1.24±0.02
Newport KFMHP	16.9±0.3	15.9±0.3	1.15±0.02
Kool Super Longs 100's 100FMSP	16.9±0.3	17.2±0.3	1.27±0.03
Raleigh KNFSP	16.9±0.4	25.1±0.4	1.46±0.03

*Retested brand

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Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32
Sorted Carbon Monoxide Results

Brand	CO mg/cig	"Tar" mg/cig	"Nicotine" mg/cig
Richland 20's 100's 100FSP	17.0±0.3	17.8±0.3	1.30±0.02
Dunhill Menthol 100FMHP	17.1±0.2	14.8±0.2	1.26±0.02
Lucky Strike RNFSP	17.2±0.4	25.1±0.4	1.56±0.03
Pall Mall 100's 100FSP	17.2±0.2	17.5±0.2	1.34±0.02
Doral Full Flavor 100's 100FMSP	17.3±0.2	15.8±0.2	1.13±0.02
Dunhill International 100FHP	17.3±0.3	16.9±0.2	1.56±0.03
Marlboro 100's Red 100FHP	17.3±0.3	16.8±0.3	1.27±0.02
Century 25's (25) KFSP	17.4±0.4	15.1±0.3	0.97±0.02
Tall 120s 120FMSP	17.5±0.3	18.4±0.3	1.57±0.03
Richland 100's (25) 100FSP	17.5±0.3	18.2±0.2	1.35±0.02
Max 120s 120FMSP	17.6±0.5	16.9±0.4	1.32±0.03
Herbert Tareyton KNFSP	17.6±0.4	25.3±1.0	1.57±0.03
Newport KFMSP	17.7±0.3	16.9±0.2	1.23±0.02
Old Gold Straights KNFSP	17.9±0.6	26.0±0.7	1.77±0.03
Prince KFSP	18.0±0.2	16.5±0.2	1.31±0.02
Doral Full Flavor 100's 100FSP	18.1±0.4	16.2±0.3	1.11±0.03
Newport 25's KFMSP	18.1±0.2	17.1±0.2	1.24±0.02
Old Gold Filters KFSP	18.2±0.5	17.2±0.3	1.25±0.02
Spring 100's 100FMSP	18.4±0.4	18.2±0.3	1.40±0.03
Max 120s 120FSP	18.6±0.4	17.2±0.2	1.32±0.02
Newport 100's 100FMSP	18.7±0.4	18.0±0.3	1.37±0.02
More Lights 120s 120FSP	18.8±0.4	12.1±0.2	0.91±0.02
Camel Filters 100's 100FSP	18.9±0.3	17.3±0.2	1.04±0.02
Rothmans KFHP	18.9±0.3	18.0±0.3	1.36±0.02
Winston 100's 100FSP	19.1±0.3	17.1±0.2	1.05±0.01
Old Gold Filter 100's 100FSP	19.2±0.3	18.4±0.3	1.39±0.02
Tall 120s 120FSP	19.2±0.3	18.9±0.3	1.56±0.03
Newport 100's 100FMHP	19.4±0.3	18.7±0.3	1.42±0.03
Newport 25's 100's 100FMSP	19.4±0.3	19.2±0.2	1.45±0.02
More Lights 120s 120FMSP	19.5±0.5	12.6±0.3	0.99±0.02
Century 25's 100's 100FSP	20.4±0.3	17.2±0.2	1.14±0.02
More 120s 120FSP	21.8±0.3	17.0±0.2	1.21±0.02
More 120s 120FMSP	21.9±0.5	17.2±0.3	1.32±0.02

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Appendix C

Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32

Butt Lengths

Brand	Length - mm
Alpine KFMSP	27,27.5,28,28.5
Alpine 100 100FMSP	35,36
Alpine Lights KFMSP	33,34,35
Alpine Lights 100 100FMSP	38,39,40
American Filter King KFSP	26,27,28
American Filter 100's 100FSP	34.5,35,35.5
American Lights KFSP	31,32,33,34
American Lights 100's 100FSP	34,35
Belair KFMSP	35,36
Belair 100's 100FMSP	39,40
Benson & Hedges KFHP	32,33,34
Benson & Hedges 100's 100FHP	34,35,36
Benson & Hedges 100's 100FMHP	34,35,36
Benson & Hedges 100's 100FSP	34,35,36
Benson & Hedges 100's 100FMSP	34,35,36
Benson & Hedges Deluxe Ultra Lights 100's 100FHP	38,39,40
Benson & Hedges Deluxe Ultra Lights 100's 100FMHP	38,39,40
Benson & Hedges Lights 100's 100FHP	38,39,40
Benson & Hedges Lights 100's 100FMHP	38,39,40
Benson & Hedges Lights 100's 100FSP	38,39,40
Benson & Hedges Lights 100's 100FMSP	38,39,40
Benson & Hedges Multifilter KFSP	32,33,34
Cambridge Full Flavor KFSP	28,29
Cambridge Full Flavor 100's 100FSP	38,39,40
Cambridge Lights KFSP	33,34,35
Cambridge Lights KFMSP	34,35
Cambridge Lights 100's 100FSP	38,39,40
Cambridge Lights 100's 100FMSP	38,39,40
Cambridge Ultra Low Tar 100 100FSP	38,39,40
Camel RNFSP	23
Camel Filters KFHP	25,26,27
Camel Filters KFSP	27,28,29
Camel Filters 100's 100FSP	34,35,
Camel Lights KFHP	29,30,31
Camel Lights KFSP	33,34,35
Camel Lights 100's 100FSP	37,38,39
Capri 100FHP	34,35,36
Capri 100FMHP	34,35,36
Capri 120's 120FHP	39,39.5
Capri 120's 120FMHP	39,39.5
Carlton Ultra KFHP	38,39,40
Carlton KFSP	32,33,
Carlton KFMSP	32,33,34,35
Carlton 83 KFHP	32,33,34
Carlton 100's 100FHP	37,38,39
Carlton 100's 100FMHP	37,38,39
Carlton 100's 100FSP	34,35,36,37

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Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32

Butt Lengths

Brand	Length - mm
Carlton 100's 100FMSP	34,35,36
Carlton 120's 120FSP	38,39
Carlton 120's 120FMSP	38,39
Century 25's (25) KFSP	29,30,31
Century 25's 100's 100FSP	38,39
Century 25's Lights (25) KFSP	29,30,31,34,35
Century 25's Lights 100's 100FSP	37,38,39
Century 25's Lights 100's 100FMSP	37,37.5,38,38.5,39
Chesterfield RNFSP	23
Chesterfield KNFSP	23
Chesterfield Lights KFSP	32,33,34
Chesterfield Lights 100 100FSP	38,39
Doral Full Flavor KFSP	27,28,29,30,31
Doral Full Flavor KFMSP	27,28,29
Doral Full Flavor 100's 100FSP	37,38,39
Doral Full Flavor 100's 100FMSP	36,37,38,39,40
Doral Lights KFSP	33,34,35
Doral Menthol Lights KFMSP	33,34,35
Doral Lights 100's 100FSP	37,38,39
Doral Menthol Lights 100's 100FMSP	37,38
Doral Ultra Lights 100's 100FSP	38,39
English Ovals KNFHP	23
Eve Slim Lights 100's 100FHP	37,38,39
Eve Slim Lights 100's 100FMHP	37,38,39
Eve Lights 120's 120FHP	37,38
Eve Lights 120's 120FMHP	37,38,39
Eve Ultra Lights 120's 120FHP	37,38
Eve Ultra Lights 120's 120FMHP	38
Falcon Lights KFSP	33,34,35,36
Falcon Lights KFMSP	34,35,36
Falcon Lights 100's 100FSP	38,39,40
Falcon Lights 100's 100FMSP	38,39
Harley Davidson KFSP	28,29
Herbert Tarcyton KNFSP	23
Kent Golden Lights KFHP	32,33,34
Kent Golden Lights KFSP	34,34.5,35,35.5,36
Kent Golden Lights KFMSP	34,35,36
Kent Golden Lights 100s 100FHP	35,36,37,38
Kent Golden Lights 100s 100FSP	35,36,37,38
Kent Golden Lights 100s 100FMSP	34,35,36
Kent KFHP	27,28,29,30
Kent KFSP	27,28,29,30
Kent 100s 100FSP	36,37,38
Kent 100s 100FMSP	35,36,37,38
Kent III KFSP	34,35
Kent III 100s 100FHP	35,36,37,38,39
Kent III 100s 100FSP	35,35.5,36,37,38

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Tobacco Institute Testing Laboratory
Market Sample 32

Butt Lengths

Brand	Length - mm
Kool RNFMSP	23
Kool Super Longs 100's 100FMSP	26,27
Kool KFMSP	29,30
Kool Super Longs 100's 100FMSP	35,36
Kool Lights KFMSP	35,36
Kool Lights 100's 100FMSP	39,40
Kool Milds KFMHP	29,30
Kool Milds KFMSP	35,36
Kool Milds 100's 100FMSP	38,39,40
Kool Ultra KFMSP	35,36
Kool Ultra 100's 100FMSP	39,40
L & M KFHP	32,33,34
L & M KFSP	32,33,34
L & M Super 100 100FSP	37,38,39,40
L & M Long Lights 100FSP	37,38,39
L & M 30's Lights 100's 100FSP	38
Lark KFSP	32,33,34
Lark 100FSP	38,39
Lark Lights KFSP	32,33,34
Lark Light 100's 100FSP	38,39
Lucky Strike RNFSP	23
Lucky Strike KFHP	32,32.5,33,33.5,34,34.5
Lucky Strike KFSP	32,33,34
Lucky Strike Filters 100's 100FSP	34,35,36
Lucky Strike Lights KFSP	33,33.5,34,34.5
Lucky Strike Lights 100's 100FSP	34,35,36
Magna KFHP	25,26,27
Magna KFSP	27,27.5,28
Magna Lites KFSP	33,33.5,34.5,35
Malibu Filters KFSP	26,27,28
Malibu Menthol KFMSP	26,27,27.5,28
Malibu 100's 100FSP	34,35,36
Malibu Menthol 100's 100FMSP	33,34,35,36
Malibu Lights KFSP	33
Malibu Lights 100's 100FSP	34,35,36
Marlboro KFHP	26,27
Marlboro KFSP	28,29
Marlboro KFMSP	27,27.5,28,28.5,29
Marlboro 100's 100FHP	34,35
Marlboro 100's 100FSP	34,35
Marlboro 25's KFSP	27,28,29
Marlboro Lights KFHP	33,34,35
Marlboro Lights KFMHP	33,34,35
Marlboro Lights KFSP	34,34.5,35
Marlboro Lights 100's 100FHP	38,39,40
Marlboro Lights 100's 100FMHP	38,39,40
Marlboro Lights 100's 100FSP	38,39

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Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32

Butt Lengths

Brand	Length - mm
Marlboro Lights 25's KFSP	33,33.5,34,34.5,35
Marlboro 100's Red 100FHP	34,35
Marlboro 100's Red 100FSP	34,35
Max 120s 120FSP	37,38,39
Max 120s 120FMSP	37,38,39
Merit KFHP	34,35,36
Merit KFSP	35,36
Merit KFMSP	34,35,36
Merit 100's 100FSP	38,38.5,39,39.5,40
Merit 100's 100FMSP	38,38.5,39,39.5,40
Merit Ultra Lights KFHP	34.5,35,35.5,36
Merit Ultra Lights KFSP	35,35.5,36
Merit Ultra Lights KFMSP	34,34.5,35,35.5,36
Merit Ultra Lights 100's 100FHP	38,39
Merit Ultra Lights 100's 100FSP	38,39
Merit Ultra Lights 100's 100FMSP	38,39,40
More 120s 120FSP	41,42,43
More 120s 120FMSP	41,42,43
More Lights 100s 100FHP	37,38,39
More Lights 100s 100FMHP	35,36,37,38,39,40
More Lights 120s 120FSP	41,42,42.5,43
More Lights 120s 120FMSP	41,42,43
More White Lights 120s 120FSP	41,41.5,42,42.5
More White Lights 120s 120FMSP	41,41.5,42,42.5,43
Newport KFMHP	26,28,29
Newport KFMSP	28,29
Newport 100's 100FMHP	35,36,37
Newport 100's 100FMSP	35,36,37,38
Newport 25's KFMSP	28,28.5,29,29.5
Newport 25's 100's 100FMSP	35,36,36.5,37
Newport Lights KFMHP	32,33,34
Newport Lights KFMSP	33,34,34.5,35,36,37
Newport Lights 100's 100FMHP	35,36,37
Newport Lights 100's 100FMSP	34,35,36,37
Newport Stripes 100FHP	35,36,37
Newport Stripes 100FMHP	35,36,37,38
Newport Stripes Slim Lights 100FMHP	37,38,39
Now KFHP	34,35,36
Now KFSP	33,33.5,34,34.5
Now KFMSP	34,34.5,35
Now 100s 100FHP	37,38,38.5,39
Now 100s 100FSP	37,37.5,38,39
Now 100s 100FMSP	37,38,39
Old Gold Straights KNFSP	23
Old Gold Filters KFSP	28,29
Old Gold Filter 100's 100FSP	35,36,37,38
Old Gold Lights KFSP	34,35

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Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

Tobacco Institute Testing Laboratory
Market Sample 32

Butt Lengths

Brand	Length - mm
Old Gold Lights 100s 100FSP	35,36,37
Pall Mall KNFSP	23
Pall Mall 25's KNFSP	23
Pall Mall 100's 100FSP	34,35,36
Pall Mall Lights 100's 100FSP	37,38,39
Pall Mall Red Filters KFSP	26,27,28
Pall Mall Red Filters 100's 100FSP	34,35,36,37
Pall Mall Red Lights KFSP	33,33.5,34
Pall Mall Red Lights 100's 100FSP	34,35,36
Parliament Lights KFHP	32,33,34
Parliament Lights KFSP	32,33,34
Parliament Lights 100's 100FSP	38,39
Philip Morris RNFSP	23
Philip Morris Commander KNFSP	23
Philip Morris International 100FHP	34.5,35,35.5,36
Philip Morris International 100FMHP	34,34.5,35,35.5,36
Players RNFHP	23
Players KFHP	34,35,35.5
Players KFMHP	34,35
Players 100's 100FHP	39
Players 100's 100FMHP	39
Players Lights 25's KFSP	33,34,35
Players Lights 25's KFMSP	33,34,35
Players 25's Lights 100's 100FSP	38,39,40
Players 25's Lights 100's 100FMSP	39,40
Prince KFSP	27
Prince Lights KFSP	27
Pyramid KNFSP	23
Pyramid Lights KFSP	33,34
Pyramid Lights 100's 100FSP	38,39,39.5,40
Pyramid Ultra Lights 100's 100FSP	38,38.5
Raleigh KNFSP	23
Raleigh KFSP	29,30
Raleigh 100's 100FSP	35,36
Raleigh Lights KFSP	35,36
Raleigh Lights 100's 100FSP	39,40
Richland 20's KFSP	29,30
Richland 20's KFMSP	29,30
Richland 20's 100's 100FSP	34,34.5,35,36
Richland 20's Menthol 100's 100FMSP	34,35
Richland 20's Lights KFSP	34,35
Richland 20's Lights 100's 100FSP	38,39,39.5,40
Richland (25) KFSP	29,30
Richland (25) KFMSP	28,29,29.5
Richland 100's (25) 100FSP	34,34.5,35,35.5,36
Richland Lights (25) KFSP	34,34.5,35,35.5
Richland Lights (25) 100's 100FSP	39,39.5

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Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

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Butt Lengths

Brand	Length - mm
Ritz 100 100FHP	37,38,39
Ritz 100 100FMHP	37,38,39
Salem KFMSP	28,29
Salem 100's 100FMSP	34,34.5,35,35.5
Salem Lights KFMSP	33,34,35
Salem Lights 100's 100FMHP	36.5,37,37.5,38,38.5,39
Salem Lights 100's 100FMSP	37.5,38,38.5
Salem Slim Lights 100's 100FMHP	37,37.5,38
Salem Ultra Lights KFMSP	33,34,35
Salem Ultra Lights 100's 100FMSP	37.5,38,38.5
Saratoga 120's 120FHP	38,38.5,39,39.5
Saratoga 120's 120FMHP	38,38.5,39,39.5
Satin 100FSP	35,36,37
Satin 100FMSP	35,36,37
Savvy 100's Lights 100FSP	37.5,38,38.5
Savvy 100's Lights 100FMSP	37,37.5,38.5,39
Savvy Ultra Lights 100's 100FSP	36,37,37.5,38,39,40
Silva Thins Filters 100FHP	38.5,39,39.5,40
Silva Thins Menthol 100FMHP	38,39,40
Spring 100's 100FMSP	35,36,36.5,37,38
Tall 120s 120FSP	37,37.5,38,38.5,39
Tall 120s 120FMSP	38,39
Tareyton KFSP	27,28
Tareyton 100's 100FSP	34,35,36
Tareyton Lights KFSP	34,35,36
Tareyton Long Lights 100FSP	34,35,35.5,36,37
Triumph KFSP	35,35.5,36
Triumph KFMSP	34,35,35.5,36
Triumph 100s 100FSP	35,36,36.5,37,38
Triumph 100s 100FMSP	35,36,37,38
True KFSP	32,32.5,33,33.5,34
True KFMSP	32,32.5,33,33.5,34
True 100's 100FSP	36,36.5,37
True 100's 100FMSP	36,37
Vantage KFSP	32,33,34
Vantage KFMSP	32.5,33,34
Vantage 100s 100FSP	37,38
Vantage Menthol 100s 100FMSP	38,39
Vantage Excell 100's 100FSP	38,38.5
Vantage Ultra Lights KFSP	33,33.5,34
Vantage Ultra Lights 100s 100FSP	37,37.5,38,38.5,39
Viceroy KFSP	29,30
Viceroy Super Long 100's 100FSP	35,36
Viceroy Lights KFSP	35,36
Viceroy Lights 100's 100FSP	39,40
Virginia Slims 100FSP	34.5,35,35.5
Virginia Slims 100FMSP	34.5,35,35.5

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Source: https://www.industrydocuments.ucsf.edu/docs/pnbl0001

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Butt Lengths

Brand	Length - mm
Virginia Slims Lights 100FHP	38,39,39.5,40
Virginia Slims Lights 100FMHP	38.5,39,39.5,40
Virginia Slims Lights 120's 120FHP	38,39,39.5,40
Virginia Slims Lights 120's 120FMHP	38,39,39.5,40
Virginia Slims Ultra Lights 100 100FHP	38,38.5,39,39.5,40
Virginia Slims Ultra Lights 100 100FMHP	38,38.5,39,39.5,40
Winston KFHP	25,26
Winston KFSP	28,29
Winston 100's 100FSP	33.5,34,34.5,35
Winston Lights KFHP	29,29.5,30,30.5,31
Winston Lights KFSP	34,34.5,35
Winston Lights 100's 100FHP	36.5,37,37.5,38,38.5,39
Winston Lights 100's 100FSP	37,37.5,38
Winston Ultra Lights KFSP	33.5,34,34.5
Winston Ultra Lights 100's 100FSP	37.5,37.5,38,38.5,39
Craven "A" KFHP	23.5,24
Craven "A" Filter Standard Size RFHP	23
Dunhill International 100FHP	30.5,31,31.5,32
Dunhill Menthol 100FMHP	31,31.5
Dunhill Menthol Mild 100FMHP	31,31.5,32
Dunhill International Superior Mild 100FHP	31,31.5,32
Rothmans KFHP	23
Rothmans Special Mild KFHP	27
St. Moritz Filter 100FSP	35,35.5,36
St. Moritz Menthol 100FMSP	35,35.5,36

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